



Mi Power Distribution Boards up to 630 A

- combinable enclosure system
- degree of protection IP 65
- made from polycarbonate
- protection class II, 
- in accordance with IEC 61 439 Part 2

Assembling
videos



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System description	266 - 267
Power distribution boards up to 630 A as power switchgear and controlgear assembly (PSC) in accordance with IEC 61 439 Part 2	267
System design / System benefits / Assembly examples	268 - 271
Product benefits: Empty enclosures and Circuit breaker boxes	272

Empty enclosures with transparent lids	282 - 283
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Empty enclosures with opaque lids	284 - 285
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Circuit breaker boxes for installation of DIN rail equipment up to 63 A	
with PE and N terminals, 9 up to 84 modules	277 - 278
with hinged flaps , with PE and N terminals, 12 up to 48 modules	279
without PE and N terminals, 12 up to 36 modules	280 - 281
with hinged flaps , without PE and N terminals, 12 up to 48 modules	282
for miniature circuit breakers (MCB)	283

Circuit breaker boxes for installation of DIN rail equipment up to 63 A with removable DIN rail rack for earth connection (British Standard)	
with PE and N terminals, 56 up to 84 modules	278, 281

Meter Boxes	284 - 285
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HRC fuse box with fuse elements, HRC fuse boxes with fuse switch disconnectors on busbar system	
HRC fuse elements and busbars	286 - 293
HRC-fuse switch disconnectors and busbars	294 - 301
Busbars	302 - 305
Busbar boxes prepared for Miniature Circuit-Breakers (MCB)	306 - 307



Mi Isolator Boxes

with built-in switch disconnectors
Accessories

308 - 312
312



Changeover switch boxes(I-0-II)

314



Mi MCCB Circuit-Breaker Boxes

with Circuit-Breaker

315 - 316



Empty enclosures with transparent hinged lids

3 walls with metric knockouts for cable entry and assembly

317 - 318



Empty enclosures with opaque hinged lids

3 walls with metric knockouts for cable entry and assembly

319 - 320



Accessories

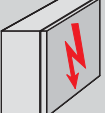
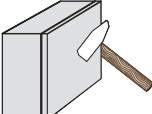
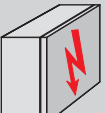
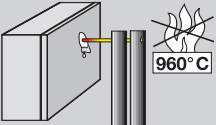
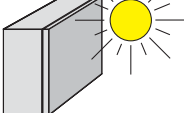
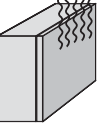
322 - 350



Technical Details

Assembly

352 - 366
362 - 366

 Environmental conditions	Ambient temperatures ■ for distribution boards in accordance with IEC 61 439: -5° C up to 35° C, max. + 40° C humidity: 50% at 40° C, 100% at 25° C ■ for empty enclosures: - 25°C up to + 70° C The rated insulation voltage is possibly reduced by the installed equipment technology
 Application area	The enclosures are suitable for the protected outdoor installation - harsh environment and / or protected outdoor. However the climatic influences and effects on the equipment are to be considered, see Technical Details: Operating and Ambient Conditions
 Insulation	Insulated enclosures (Protection class II) 
 Impact strength	Degree of protection against mechanical load IK 08 (5 Joule) in accordance with IEC 62 262
 Protection against foreign solid objects and direct contact	Dust-proof Degree of protection IP 65
 Protection against ingress of water with harmful effects	Protected against water Degree of protection IP 65 Note: Single enclosures without any flanges and components mounted in the lid have degree of protection IP 66
 Electrical parameters	Rated current: 630 A Rated insulation voltage: AC 690 V, DC 1000 V*, IEC 60 664 * The rated insulation voltage is possibly reduced by the installed equipment technology
Material: Polycarbonate	
 Burning behaviour	Glow wire test 960°C in accordance with IEC 60 695-2-1, flame-retardant, self-extinguishing UL Subject 94, V-2
 UV resistance	UV resistance according to IEC 61 439-1 The material is examined for UV resistance
 Chemical resistance	Resistance against acid 10% and lye 10%, petrol and mineral oil
 Toxic behaviour	Silicone- and halogen-free

Dependent on the system

Dependent on material



Power distribution boards up to 630 A as power switchgear and controlgear assembly (PSC) in accordance with IEC 61 439 Part 2



Mi Distribution boards are particularly suitable for the application in challenging industrial and demanding ambient conditions and difficult environments.



Mi Distribution boards are dust and water-resistant and can withstand the highest loads.



All enclosures with transparent or opaque lids

Mi Power distribution boards up to 630 A

combinable enclosure system

insulation-enclosed, total insulated, degree of protection IP 65,
for the assembly of power switchgear and controlgear assembly (PSC)
up to 630 A in accordance with IEC 61 439 Part 2

- Boxes can also be used as a single box
- Degree of protection IP 65: dust-proof and jet water-proof
- Application area: Mi enclosures are suitable for indoor and outdoor installation - harsh environment and /or outdoor.

Material:

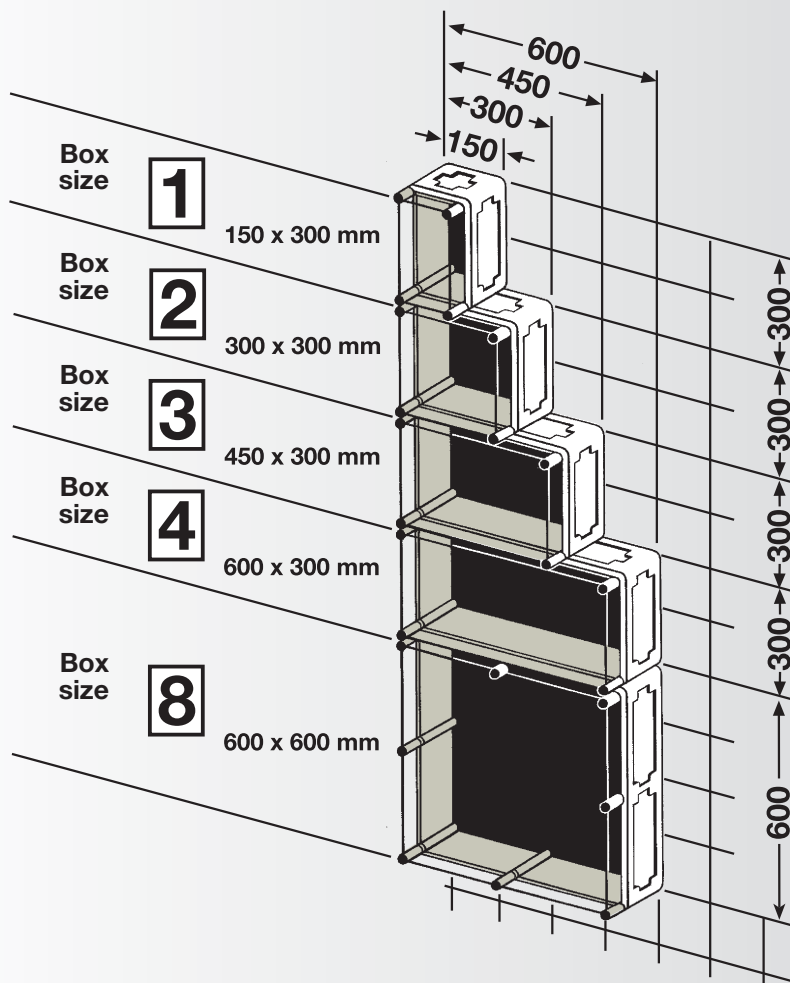
- Polycarbonate
- Burning behaviour: Glow wire test in accordance with IEC 60 695-2-11, self-extinguishing, flame-retardant
- UV-resistance in accordance with IEC 61 439-1, Clause 10.2.4:
The material is examined for UV resistance.
- Toxic behaviour: silicone- and halogen-free
- Chemical resistance:
resistant against acid, lye, benzene and mineral oil

Enclosure System:

- Covers made from thermoplastic
- Covers with protected and captive marking labels
- Cover plates for mounting electrical equipment
- Large wall openings enable the wiring within the distribution boards
- Cable entry via metric knockouts in all box walls,
via flanges with metric knockouts or elastic membranes
or cable inserts with up to 74 mm cable diameter
- Wall fixing right away in the boxes, via external brackets or via mounting profiles
- Facility for lead seal and locking
- Hinges for lids and heavy-duty hinge joints for operating installation device within a large area
- Connection Box for the installation of devices that must be operated externally, such as plugs, pushbuttons and switches
- Mi empty boxes and single empty boxes conform to the
RoHS Directive 2002/95/EC

Mi Distribution boards

- modular enclosure system in grid of 150 mm
- 5 enclosure sizes:
150 x 300 mm,
300 x 300 mm,
450 x 300 mm,
600 x 300 mm and
600 x 600 mm
- for the assembly of type-tested
low-voltage switchgear
assemblies
up to 630 A
- Enclosures can be used as
well as single boxes.



Assignment of box walls:

The assignment of box walls is effected via wall symbols that are assigned to each product. The individual figures 2 give an indication, which wall is concerned.

All box walls are listed in the fold-out of the coverpages.



ENYMOD

Mi Distribution boards

Box walls with metric cable entries

Wall 1

1 x M 20
1 x M 32/40



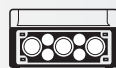
Wall 2

2 x M 20
10 x M 25
1 x M 32/40



Wall 3

4 x M 25
3 x M 40/50



Wall 4

1 x M 20
4 x M 25
1 x M 32/40
3 x M 40/50



Wall 5

8 x M 32
4 x M 40/50



Tested and certified by ASTA



Suitable also for typical
devices or the installation
of armoured cables with
earth connections

Application: Motor Control Centre based on Mi System

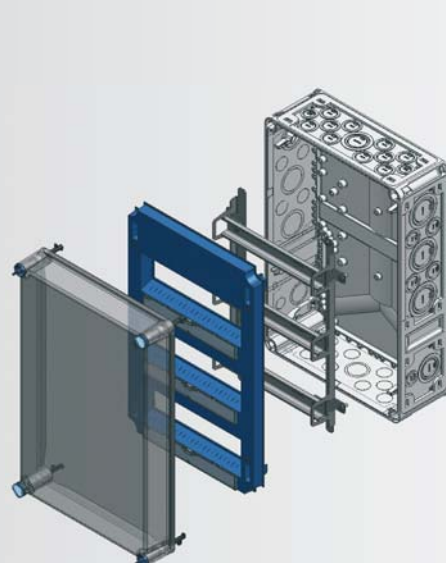
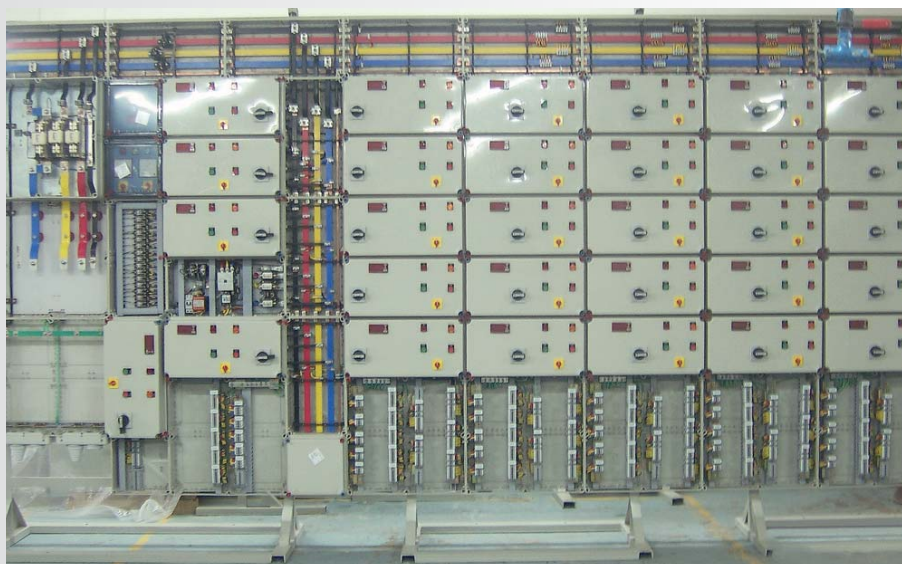
This Motor Control Centre
installed in a big paper mill
consists of 33 feeders rang-
ing from 2.2 kW to 50 kW
including complete wiring with
main incomer of 630 A.

Application: Removable DIN rail rack for in- tegrated earth bounding in each Mi Circuit breaker box.

Cable entry for armoured
cables via metal glands for
earth connection according to
British Standards.

Key Benefits

Material	Thermoplastic material
Corrosion-proof	yes
Degree of protection	IP 65 (dust proof, water proof)
Protection against mechanical impact	no lasting deformations, elastic
Weight	"light"
Subsequent handling (such as openings)	"easy"
Transparent lids	standard offer
Operating area	partial opening range via lids of individual enclosures
Adaptability to location	by arrangement of modular enclosures
Combinability / Expandability	in all directions by combinable enclosures including electrical functions
Availability in the market	immediately with standard modules and accessories



Integrated earth bounding in each circuit
breaker box



Cable entry for armoured cables via metal glands

**Combinable and
extendable in all directions**

Application examples



Combinable and
extendable in all directions

Application examples



Application with canopy



Mi empty boxes conform to the RoHS Directive 2002/95/EC, for more information, refer to technical data.



- Equipment can be installed via DIN rails which are fastened on spacers



- Equipment can be installed via mounting plates as well



- Installation of equipment in cover plates



- Boxes can be assembled to larger units



- Blanking strips (attached) for unused sections in equipment openings of protection covers



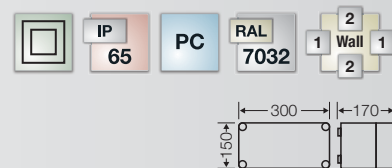
- Facilities for earth connection according to British Standard



Mi 0100

Built-in dimensions W 275 x H 125 x D 150 mm

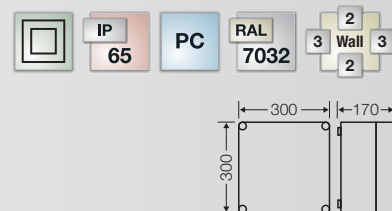
- max. installation depth with built-in mounting plate 146 mm, with built-in DIN rail 135 mm
- box size 1
- please order DIN rails, mounting plates or covers additionally
- with transparent lid
- lid fasteners for tool operation



Mi 0200

Built-in dimensions W 275 x H 275 x T 150 mm

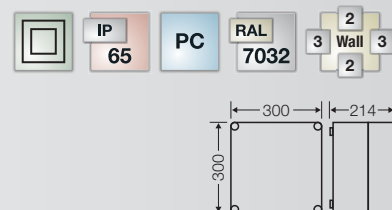
- max. installation depth with built-in mounting plate 146 mm, with built-in DIN rail 135 mm
- box size 2
- please order DIN rails, mounting plates or covers additionally
- with transparent lid
- lid fasteners for tool operation



Mi 0210

Built-in dimensions W 275 x H 275 x D 195 mm

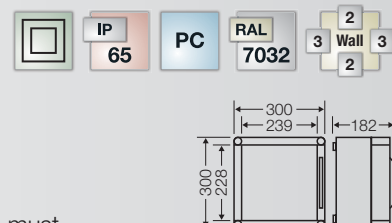
- max. installation depth with built-in mounting plate 191 mm, with built-in DIN rail 180 mm
- box size 2
- please order DIN rails, mounting plates or covers additionally
- with transparent lid
- lid fasteners for tool operation



Mi 0220

Built-in dimensions W 275 x H 275 x D 119 mm

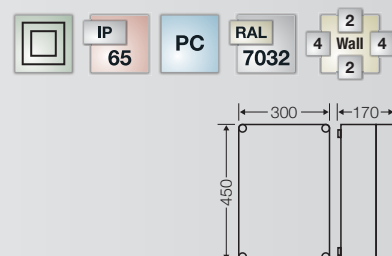
- max. installation depth with built-in mounting plate 115 mm, with built-in DIN rail 104 mm
- box size 2
- please order DIN rails, mounting plates or covers additionally
- with hinged lid for built-in equipment with protection cover which must be operated
- with transparent lid
- lid fasteners for tool operation



Mi 0300

Built-in dimensions W 275 x H 425 x D 150 mm

- max. installation depth with built-in mounting plate 146 mm, with built-in DIN rail 135 mm
- box size 3
- please order DIN rails, mounting plates or covers additionally
- with transparent lid
- lid fasteners for tool operation

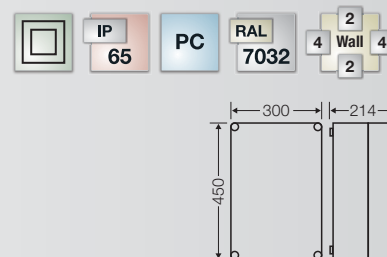




Mi 0310

Built-in dimensions W 275 x H 425 x D 195 mm

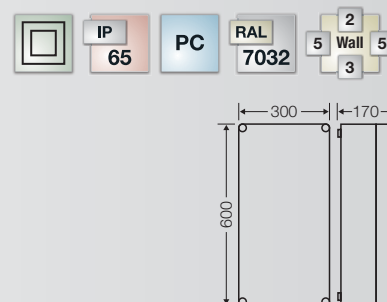
- max. installation depth with built-in mounting plate 191 mm, with built-in DIN rail 180 mm
- box size 3
- please order DIN rails, mounting plates or covers additionally
- with transparent lid
- lid fasteners for tool operation



Mi 0400

Built-in dimensions W 275 x H 575 x D 150 mm

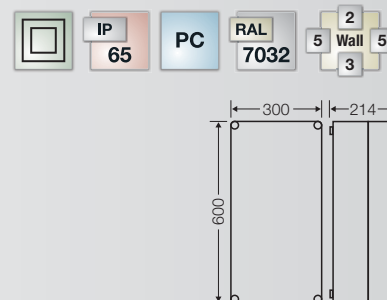
- max. installation depth with built-in mounting plate 146 mm, with built-in DIN rail 135 mm
- box size 4
- please order DIN rails, mounting plates or covers additionally
- with transparent lid
- lid fasteners for tool operation



Mi 0410

Built-in dimensions W 275 x H 575 x D 195 mm

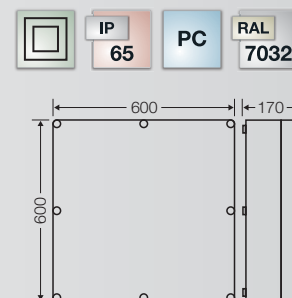
- max. installation depth with built-in mounting plate 191 mm, with built-in DIN rail 180 mm
- box size 4
- please order DIN rails, mounting plates or covers additionally
- with transparent lid
- lid fasteners for tool operation



Mi 0800

Built-in dimensions W 575 x H 575 x D 150 mm

- max. installation depth with built-in mounting plate 146 mm, with built-in DIN rail 135 mm
- box size 8
- please order DIN rails, mounting plates or covers additionally
- cable entry only possible via flange
- with transparent lid
- lid fasteners for tool operation

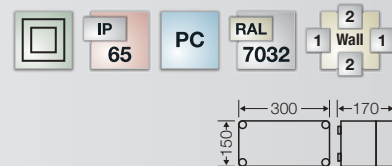




Mi 0101

Built-in dimensions W 275 x H 125 x D 150 mm

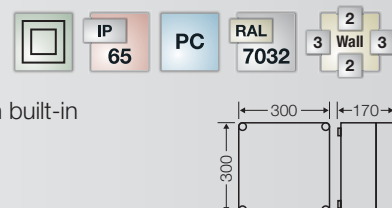
- max. installation depth with built-in mounting plate 146 mm, with built-in DIN rail 135 mm
- box size 1
- please order DIN rails, mounting plates or covers additionally
- with opaque lid
- lid fasteners for tool operation



Mi 0201

Built-in dimensions W 275 x H 275 x T 150 mm

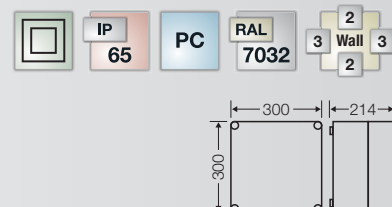
- max. installation depth with built-in mounting plate 146 mm, with built-in DIN rail 135 mm
- box size 2
- please order DIN rails, mounting plates or covers additionally
- with opaque lid
- lid fasteners for tool operation



Mi 0211

Built-in dimensions W 275 x H 275 x D 195 mm

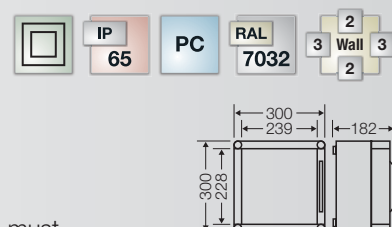
- max. installation depth with built-in mounting plate 191 mm, with built-in DIN rail 180 mm
- box size 2
- please order DIN rails, mounting plates or covers additionally
- with opaque lid
- lid fasteners for tool operation



Mi 0221

Built-in dimensions W 275 x H 275 x D 119 mm

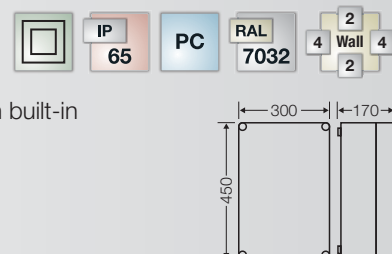
- max. installation depth with built-in mounting plate 115 mm, with built-in DIN rail 104 mm
- box size 2
- please order DIN rails, mounting plates or covers additionally
- with hinged lid for built-in equipment with protection cover which must be operated
- with opaque lid
- lid fasteners for tool operation



Mi 0301

Built-in dimensions W 275 x H 425 x D 150 mm

- max. installation depth with built-in mounting plate 146 mm, with built-in DIN rail 135 mm
- box size 3
- please order DIN rails, mounting plates or covers additionally
- with opaque lid
- lid fasteners for tool operation

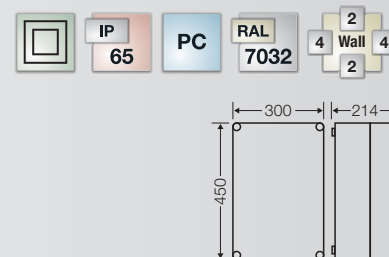




Mi 0311

Built-in dimensions W 275 x H 425 x D 195 mm

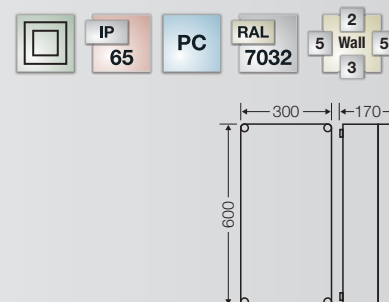
- max. installation depth with built-in mounting plate 191 mm, with built-in DIN rail 180 mm
- box size 3
- please order DIN rails, mounting plates or covers additionally
- with opaque lid
- lid fasteners for tool operation



Mi 0401

Built-in dimensions W 275 x H 575 x D 150 mm

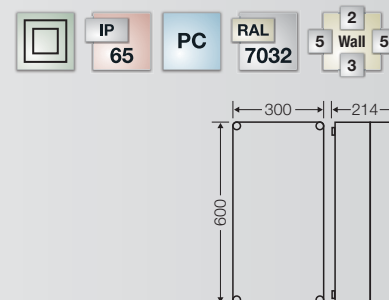
- max. installation depth with built-in mounting plate 146 mm, with built-in DIN rail 135 mm
- box size 4
- please order DIN rails, mounting plates or covers additionally
- with opaque lid
- lid fasteners for tool operation



Mi 0411

Built-in dimensions W 275 x H 575 x D 195 mm

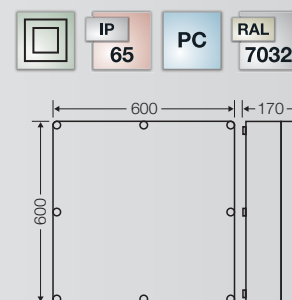
- max. installation depth with built-in mounting plate 191 mm, with built-in DIN rail 180 mm
- box size 4
- please order DIN rails, mounting plates or covers additionally
- with opaque lid
- lid fasteners for tool operation



Mi 0801

Built-in dimensions W 575 x H 575 x D 150 mm

- max. installation depth with built-in mounting plate 146 mm, with built-in DIN rail 135 mm
- box size 8
- please order DIN rails, mounting plates or covers additionally
- cable entry only possible via flange
- with opaque lid
- lid fasteners for tool operation

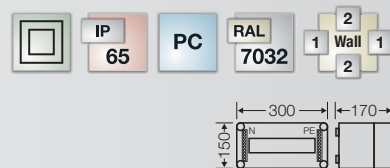




Mi 1109

9 modules: 1 x 9 x 18 mm

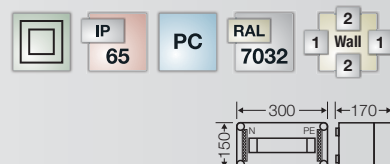
- 1-row
- FIXCONNECT® plug-in terminal technology for PE and N
- PE/N 2 x 25 mm², 8 x 4 mm², Cu each
- for installation of DIN rail equipment in accordance with DIN 43 880
- with blanking strips for unused DIN rail openings
- lid fasteners for hand operation



Mi 1112

12 modules: 1 x 12 x 18 mm

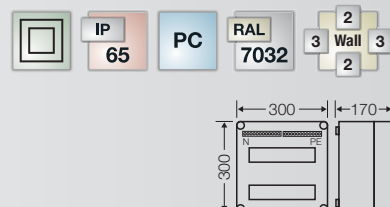
- 1-row
- with screw-type terminals for PE/N, for copper conductors
- per PE/N 10 x 16 mm², Cu
- for installation of DIN rail equipment in accordance with DIN 43 880
- with blanking strips for unused DIN rail openings
- lid fasteners for hand operation



Mi 1224

24 modules: 2 x 12 x 18 mm

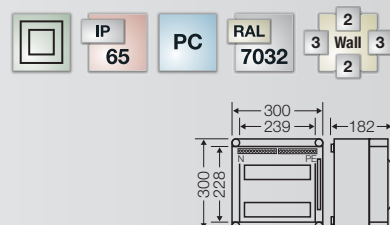
- 2-row
- FIXCONNECT® plug-in terminal technology for PE and N
- per PE/N 3 x 25 mm², 12 x 4 mm², Cu
- N separable for various potentials
- for installation of DIN rail equipment in accordance with DIN 43 880
- with blanking strips for unused DIN rail openings
- lid fasteners for hand operation



Mi 1220

24 modules: 2 x 12 x 18 mm

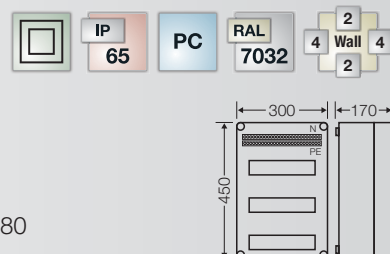
- 2-row
- with hinged lid
- FIXCONNECT® plug-in terminal technology for PE and N
- per PE/N 3 x 25 mm², 12 x 4 mm², Cu
- N separable for various potentials
- for installation of DIN rail equipment in accordance with DIN 43 880
- with blanking strips for unused DIN rail openings
- lid fasteners for hand operation



Mi 1336

36 modules: 3 x 12 x 18 mm

- 3-row
- FIXCONNECT® plug-in terminal technology for PE and N
- per PE/N 6 x 25 mm², 24 x 4 mm², Cu
- N separable for various potentials
- for installation of DIN rail equipment in accordance with DIN 43 880
- with blanking strips for unused DIN rail openings
- lid fasteners for hand operation

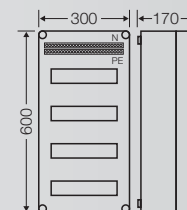




Mi 1448

48 modules: 4 x 12 x 18 mm

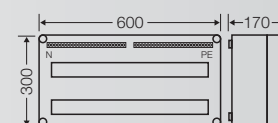
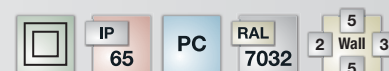
- 4-row
- FIXCONNECT® plug-in terminal technology for PE and N
- per PE/N 6 x 25 mm², 24 x 4 mm², Cu
- N separable for various potentials
- for installation of DIN rail equipment in accordance with DIN 43 880
- with blanking strips for unused DIN rail openings
- lid fasteners for hand operation



Mi 1456

56 modules: 2 x 28 x 18 mm

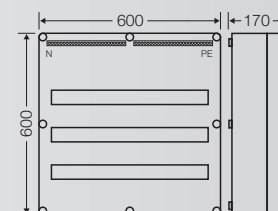
- 2-row
- FIXCONNECT® plug-in terminal technology for PE and N
- per PE/N 6 x 25 mm², 24 x 4 mm², Cu
- N separable for various potentials
- for installation of DIN rail equipment in accordance with DIN 43 880
- with blanking strips for unused DIN rail openings
- lid fasteners for hand operation
- **with removable DIN rail rack and earth connection**
- DIN rail rack can be earthed



Mi 1884

84 modules: 3 x 28 x 18 mm

- 3-row
- FIXCONNECT® plug-in terminal technology for PE and N
- per PE/N 6 x 25 mm², 24 x 4 mm², Cu
- N separable for various potentials
- for installation of DIN rail equipment in accordance with DIN 43 880
- with blanking strips for unused DIN rail openings
- lid fasteners for hand operation
- **with removable DIN rail rack and earth connection**
- DIN rail rack can be earthed
- cable entry only possible via flange



Assembly example:

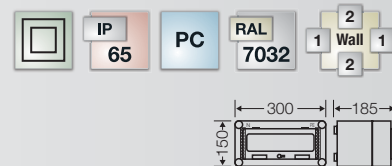
Removable DIN rail rack for earth connection



Mi 1111

12 modules: 1 x 12 x 18 mm

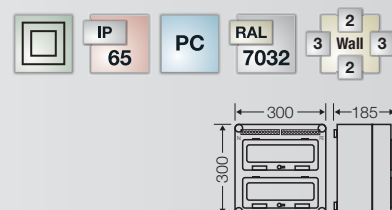
- 1-row
- with 1 hinged flap
- hinged flap lockable with accessories
- with screw-type terminals for PE/N, for copper conductors
- per PE/N 10 x 16 mm², Cu
- for installation of DIN rail equipment in accordance with DIN 43 880
- with blanking strips for unused DIN rail openings
- lid fasteners for hand operation



Mi 1222

24 modules: 2 x 12 x 18 mm

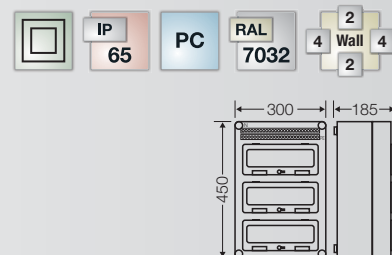
- 2-row
- with 2 hinged flaps
- hinged flap lockable with accessories
- FIXCONNECT® plug-in terminal technology for PE and N
- per PE/N 3 x 25 mm², 12 x 4 mm², Cu
- N separable for various potentials
- for installation of DIN rail equipment in accordance with DIN 43 880
- with blanking strips for unused DIN rail openings
- lid fasteners for hand operation



Mi 1333

36 modules: 3 x 12 x 18 mm

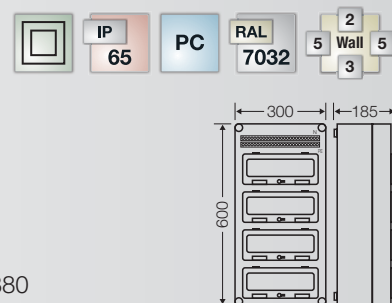
- 3-row
- with 3 hinged flaps
- hinged flap lockable with accessories
- FIXCONNECT® plug-in terminal technology for PE and N
- per PE/N 6 x 25 mm², 24 x 4 mm², Cu
- N separable for various potentials
- for installation of DIN rail equipment in accordance with DIN 43 880
- with blanking strips for unused DIN rail openings
- lid fasteners for hand operation



Mi 1444

48 modules: 4 x 12 x 18 mm

- 4-row
- with 4 hinged flaps
- hinged flap lockable with accessories
- FIXCONNECT® plug-in terminal technology for PE and N
- per PE/N 6 x 25 mm², 24 x 4 mm², Cu
- N separable for various potentials
- for installation of DIN rail equipment in accordance with DIN 43 880
- with blanking strips for unused DIN rail openings
- lid fasteners for hand operation

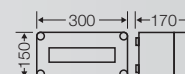
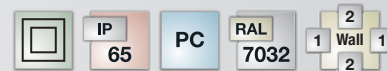




Mi 1115

**12 modules: 1 x 12 x 18 mm
without PE and N terminal**

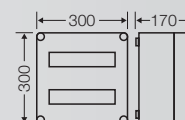
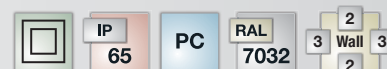
- 1-row
- for installation of DIN rail equipment in accordance with DIN 43 880
- order PE/N terminals separately
- with blanking strips for unused DIN rail openings
- lid fasteners for hand operation



Mi 1225

**24 modules: 2 x 12 x 18 mm
without PE and N terminal**

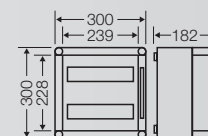
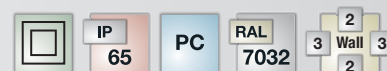
- 2-row
- for installation of DIN rail equipment in accordance with DIN 43 880
- order PE/N terminals separately
- with blanking strips for unused DIN rail openings
- lid fasteners for hand operation



Mi 1226

**24 modules: 2 x 12 x 18 mm
without PE and N terminal
with hinged lid**

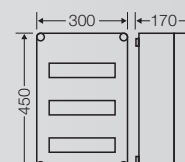
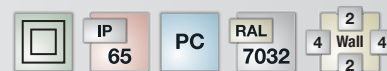
- 2-row
- for installation of DIN rail equipment in accordance with DIN 43 880
- order PE/N terminals separately
- with blanking strips for unused DIN rail openings
- lid fasteners for hand operation



Mi 1335

**36 modules: 3 x 12 x 18 mm
without PE and N terminal**

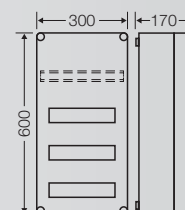
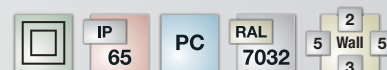
- 3-row
- for installation of DIN rail equipment in accordance with DIN 43 880
- order PE/N terminals separately
- with blanking strips for unused DIN rail openings
- lid fasteners for hand operation



Mi 1440

**36 modules: 3 x 12 x 18 mm
without PE and N terminal
with additional DIN rail**

- 4-row
- with 1 DIN rail 216 mm wide (for installation depth of 72 mm)
- for installation of DIN rail equipment in accordance with DIN 43 880
- order PE/N terminals separately
- with blanking strips for unused DIN rail openings
- lid fasteners for hand operation

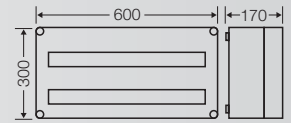




Mi 1455

**56 modules: 2 x 28 x 18 mm
without PE and N terminal**

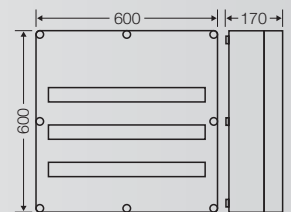
- 2-row
- for installation of DIN rail equipment in accordance with DIN 43 880
- order PE/N terminals separately
- with blanking strips for unused DIN rail openings
- lid fasteners for hand operation
- **with removable DIN rail rack and earth connection**



Mi 1885

**84 modules: 3 x 28 x 18 mm
without PE and N terminal**

- 3-row
- for installation of DIN rail equipment in accordance with DIN 43 880
- order PE/N terminals separately
- with blanking strips for unused DIN rail openings
- lid fasteners for hand operation
- **with removable DIN rail rack and earth connection**
- cable entry only possible via flange



Assembly example:

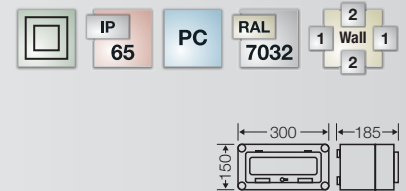
Removable DIN rail rack for earth connection



Mi 1117

**12 modules: 1 x 12 x 18 mm
without PE and N terminal**

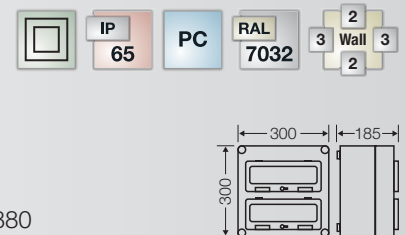
- 1-row
- with 1 hinged flap
- hinged flap lockable with accessories
- for installation of DIN rail equipment in accordance with DIN 43 880
- order PE/N terminals separately
- with blanking strips for unused DIN rail openings
- lid fasteners for hand operation



Mi 1227

**24 modules: 2 x 12 x 18 mm
without PE and N terminal**

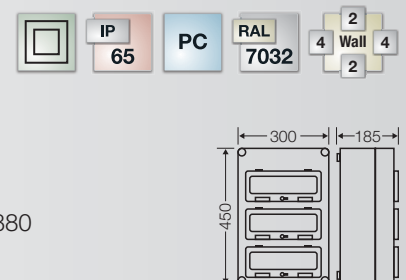
- 2-row
- with 2 hinged flaps
- hinged flap lockable with accessories
- for installation of DIN rail equipment in accordance with DIN 43 880
- order PE/N terminals separately
- with blanking strips for unused DIN rail openings
- lid fasteners for hand operation



Mi 1337

**36 modules: 3 x 12 x 18 mm
without PE and N terminal**

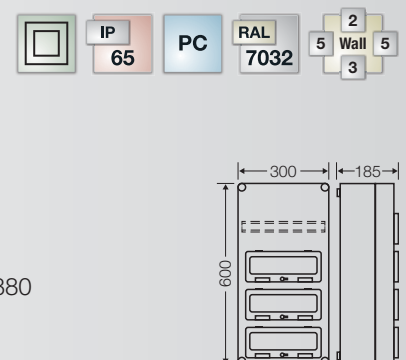
- 3-row
- with 3 hinged flaps
- hinged flap lockable with accessories
- for installation of DIN rail equipment in accordance with DIN 43 880
- order PE/N terminals separately
- with blanking strips for unused DIN rail openings
- lid fasteners for hand operation



Mi 1443

**36 modules: 3 x 12 x 18 mm
without PE and N terminal
with additional DIN rail**

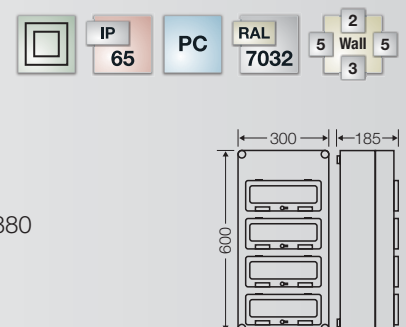
- 4-row
- with 3 hinged flaps
- hinged flap lockable with accessories
- with 1 DIN rail 216 mm wide (for installation depth of 72 mm)
- for installation of DIN rail equipment in accordance with DIN 43 880
- order PE/N terminals separately
- with blanking strips for unused DIN rail openings
- lid fasteners for hand operation



Mi 1445

**48 modules: 4 x 12 x 18 mm
without PE and N terminal**

- 4-row
- with 4 hinged flaps
- hinged flap lockable with accessories
- for installation of DIN rail equipment in accordance with DIN 43 880
- order PE/N terminals separately
- with blanking strips for unused DIN rail openings
- lid fasteners for hand operation

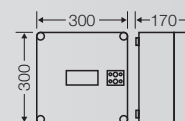




Mi 1281

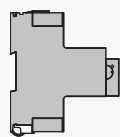
**6 modules: 1 x 6 x 18 mm
for miniature circuit breakers (MCB)**

- 1-row
- with 1-pole main branch terminal for copper conductors
- protection cover can be sealed, with lockable cover strip
- lid fasteners for hand operation
- PEN 2x 25mm², 2 x 16mm², Cu

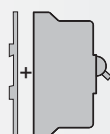


Note:

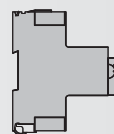
Prepared for the installation of currently commercially available miniature circuit-breakers (MDB)



for example
ABN Type XHA 3..-4
Hager Type HTN..E
etc.
SHA
(voltage dependent)



for example
ABB Type S 701/S 703
+ adapter for DIN rail
S 700 BT3
(1 pc. for S 701, 2 pc. for S 703)
SHU (voltage dependent)



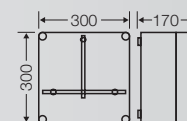
for example
ABB Type S 80.-....
SHU (voltage dependent)



Mi 2200

**max. installation depth: 146 mm
with meter fixing screws**

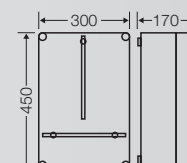
- use in unmetered area after consultation with local power supply companies
- for meters with three-point mounting
- lid fasteners for tool operation
- can be sealed twice



Mi 2300

**max. installation depth: 146 mm
with meter fixing screws**

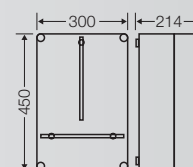
- use in unmetered area after consultation with local power supply companies
- for meters with three-point mounting
- lid fasteners for tool operation
- can be sealed twice



Mi 2310

**max. installation depth: 190 mm
with meter fixing screws**

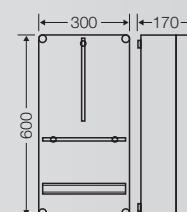
- use in unmetered area after consultation with local power supply companies
- for meters with three-point mounting
- lid fasteners for tool operation
- can be sealed twice



Mi 2400

**max. installation depth: 146 mm
with KWH meter support and DIN rail**

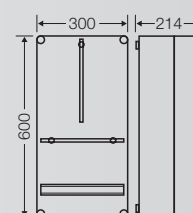
- use in unmetered area after consultation with local power supply companies
- for meters with three-point mounting
- lid fasteners for tool operation
- can be sealed twice



Mi 2410

**max. installation depth: 190 mm
with KWH meter support and DIN rail**

- use in unmetered area after consultation with local power supply companies
- for meters with three-point mounting
- lid fasteners for tool operation
- can be sealed twice

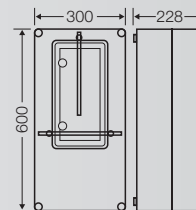




Mi 2413

**max. installation depth: 190 mm
with KWH meter support and KWH meter
window flap**

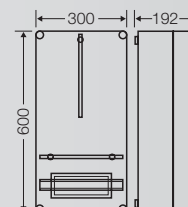
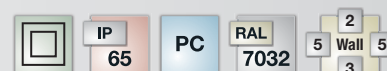
- without DIN rail
- for maximum KWH meters, time switches etc.
- for tool or manual operation
- for padlock (clip Ø max. 6 mm)
- standard opening dimensions 140 x 310 mm
- use in unmetered area after consultation with local power supply companies
- for meters with three-point mounting
- lid fasteners for tool operation
- can be sealed twice



Mi 2420

**max. installation depth: 146 mm
with KWH meter support, hinged flap
(12 modules)**

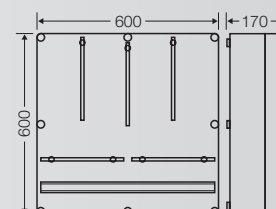
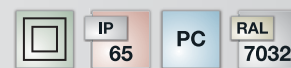
- hinged flap with protection cover for 12 modules (1 x 12 x 18 mm) and associated DIN rail
- use in unmetered area after consultation with local power supply companies
- for meters with three-point mounting
- lid fasteners for tool operation
- can be sealed twice



Mi 2800

**max. installation depth: 146 mm
with 3 KWH meter supports and DIN rail**

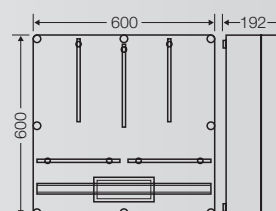
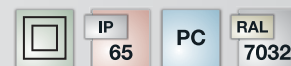
- cable entry only possible via flange
- use in unmetered area after consultation with local power supply companies
- for meters with three-point mounting
- lid fasteners for tool operation
- can be sealed twice



Mi 2820

**max. installation depth: 146 mm
with 3 KWH meter supports, hinged flap
(12 modules)**

- hinged flap with protection cover for 12 modules (1 x 12 x 18 mm) and associated DIN rail
- use in unmetered area after consultation with local power supply companies
- for meters with three-point mounting
- lid fasteners for tool operation
- can be sealed twice
- cable entry only possible via flange



**HRC fuse box with fuse elements, 3-pole,
in accordance with IEC 60 269**



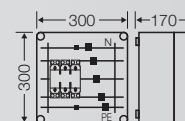
Mi 6212

1 x HRC 00, 3-pole

Busbar rated current: 250 A

- busbar 5-pole, dimensions busbars: L1-L3: 12 x 10 mm, N: 12 x 5 mm, PE: 12 x 5 mm
- terminals for outgoing cables 4-35 mm², terminals for incoming terminals 25-70 mm², Cu connection Mi VS 100/160/250/400 (for terminal technology refer to index technical data)
- with PE and N for copper conductors
- 1 terminal per PE+N
- N conductor with the same current carrying capacity as the phase conductors
- max. rated current fuse holder: 125 A
- with cover
- outgoing at the top
- lid fasteners for tool operation

centreline spacing of busbars	60 mm
rated voltage	AC 690 V
tightening torque for terminal	3.0 Nm terminal connection with saddle clamping unit 12.0 Nm screw connection M8



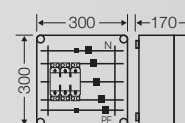
Mi 6213

1 x HRC 00, 3-pole

Busbar rated current: 400 A

- Busbar 5-pole, Dimensions busbars: L1-L3: 20 x 10 mm, N: 12 x 10 mm, PE: 12 x 5 mm
- terminals for outgoing cables 4-35 mm², terminals for incoming terminals 25-70 mm², Cu connection Mi VS 100/160/250/400 (for terminal technology refer to index technical data)
- with PE and N for copper conductors
- 1 terminal per PE+N
- N conductor with the same current carrying capacity as the phase conductors
- max. rated current fuse holder: 125 A
- with cover
- outgoing at the top
- lid fasteners for tool operation

centreline spacing of busbars	60 mm
rated voltage	AC 690 V
tightening torque for terminal	3.0 Nm terminal connection with saddle clamping unit 12.0 Nm screw connection M8



HRC fuse box with fuse elements, 3-pole, in accordance with IEC 60 269



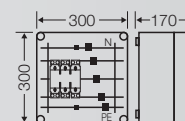
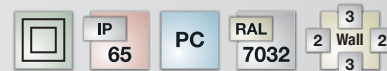
Mi 6214

1 x HRC 00, 3-pole

Busbar rated current: 630 A}

- Busbar 5-pole, Dimensions busbars: L1-L3: 30 x 10 mm, N: 25 x 10 mm, PE: 12 x 10 mm
- terminals for outgoing cables 4-35 mm², terminals for incoming terminals 25-70 mm², Cu connection Mi VS 100/160/250/400 (for terminal technology refer to index technical data)
- with PE and N for copper conductors
- 1 terminal per PE+N
- N conductor with the same current carrying capacity as the phase conductors
- max. rated current fuse holder: 125 A
- with cover
- outgoing at the top
- lid fasteners for tool operation

centreline spacing of busbars	60 mm
rated voltage	AC 690 V
tightening torque for terminal	3.0 Nm terminal connection with saddle clamping unit 12.0 Nm screw connection M8



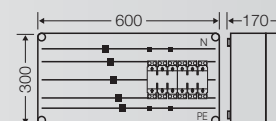
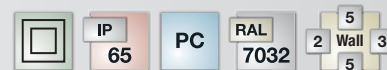
Mi 6422

2 x HRC 00, 3-pole

Busbar rated current: 250 A

- busbar 5-pole, dimensions busbars: L1-L3: 12 x 10 mm, N: 12 x 5 mm, PE: 12 x 5 mm
- terminals for outgoing cables 4-35 mm², terminals for incoming terminals 25-70 mm², Cu connection Mi VS 100/160/250/400 (for terminal technology refer to index technical data)
- with PE and N for copper conductors
- 2 terminals per PE+N
- N conductor with the same current carrying capacity as the phase conductors
- max. rated current fuse holder: 125 A
- with cover
- outgoing at the top
- lid fasteners for tool operation

centreline spacing of busbars	60 mm
rated voltage	AC 690 V
tightening torque for terminal	3.0 Nm terminal connection with saddle clamping unit 12.0 Nm screw connection M8





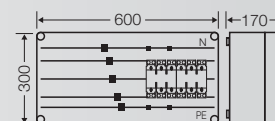
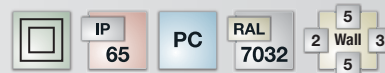
Mi 6423

2 x HRC 00, 3-pole

Busbar rated current: 400 A

- Busbar 5-pole,
Dimensions busbars:
L1-L3: 20 x 10 mm, N: 12 x 10 mm, PE: 12 x 5 mm
- terminals for outgoing cables 4-35 mm²,
terminals for incoming terminals 25-70 mm², Cu
connection Mi VS 100/160/250/400
(for terminal technology refer to index technical data)
- with PE and N for copper conductors
- 2 terminals per PE+N
- N conductor with the same current carrying capacity as the
phase conductors
- max. rated current fuse holder: 125 A
- with cover
- outgoing at the top
- lid fasteners for tool operation

centreline spacing of busbars	60 mm
rated voltage	AC 690 V
tightening torque for terminal	3.0 Nm terminal connection with saddle clamping unit 12.0 Nm screw connection M8



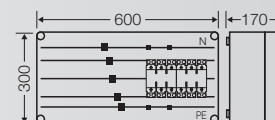
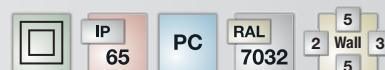
Mi 6424

2 x HRC 00, 3-pole

Busbar rated current: 630 A

- Busbar 5-pole, Dimensions busbars: L1-L3: 30 x 10 mm, N: 25 x 10 mm, PE: 12 x 10 mm
- terminals for outgoing cables 4-35 mm², terminals for incoming terminals 25-70 mm², Cu connection Mi VS 100/160/250/400 (for terminal technology refer to index technical data)
- with PE and N for copper conductors
- 2 terminals per PE+N
- N conductor with the same current carrying capacity as the phase conductors
- max. rated current fuse holder: 125 A
- with cover
- outgoing at the top
- lid fasteners for tool operation

centreline spacing of busbars	60 mm
rated voltage	AC 690 V
tightening torque for terminal	3.0 Nm terminal connection with saddle clamping unit 12.0 Nm screw connection M8



HRC fuse box with fuse elements, 3-pole, in accordance with IEC 60 269



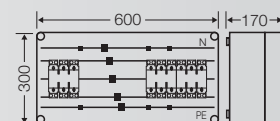
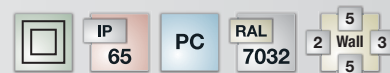
Mi 6432

3 x HRC 00, 3-pole

Busbar rated current: 250 A

- busbar 5-pole, dimensions busbars: L1-L3: 12 x 10 mm, N: 12 x 5 mm, PE: 12 x 5 mm
- terminals for outgoing cables 4-35 mm², terminals for incoming terminals 25-70 mm², Cu connection Mi VS 100/160/250/400 (for terminal technology refer to index technical data)
- with PE and N for copper conductors
- 3 terminals per PE+N
- N conductor with the same current carrying capacity as the phase conductors
- max. rated current fuse holder: 125 A
- with cover
- outgoing at the top
- lid fasteners for tool operation

centreline spacing of busbars	60 mm
rated voltage	AC 690 V
tightening torque for terminal	3.0 Nm terminal connection with saddle clamping unit 12.0 Nm screw connection M8



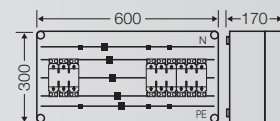
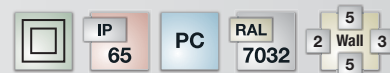
Mi 6433

3 x HRC 00, 3-pole

Busbar rated current: 400 A

- Busbar 5-pole, Dimensions busbars: L1-L3: 20 x 10 mm, N: 12 x 5 mm, PE: 12 x 5 mm
- terminals for outgoing cables 4-35 mm², terminals for incoming terminals 25-70 mm², Cu connection Mi VS 100/160/250/400 (for terminal technology refer to index technical data)
- with PE and N for copper conductors
- 3 terminals per PE+N
- N conductor with the same current carrying capacity as the phase conductors
- max. rated current fuse holder: 125 A
- with cover
- outgoing at the top
- lid fasteners for tool operation

centreline spacing of busbars	60 mm
rated voltage	AC 690 V
tightening torque for terminal	3.0 Nm terminal connection with saddle clamping unit 12.0 Nm screw connection M8





Mi Distribution Boards

**HRC fuse box with fuse elements, 3-pole,
in accordance with IEC 60 269**

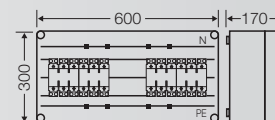
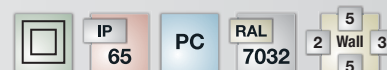
Mi 6462

4 x HRC 00, 3-pole

**Busbar rated current: 400 A
only for combination**

- Busbar 5-pole,
Dimensions busbars:
L1-L3: 20 x 10 mm, N: 12 x 10 mm, PE: 12 x 5 mm
- terminals for outgoing cables 4-35 mm², Cu (for terminal technology refer to index technical data)
- rated connecting capacity without terminals for incoming cables (for terminal technology refer to index technical data)
- with PE and N for copper conductors
- 4 terminals per PE+N
- N conductor with the same current carrying capacity as the phase conductors
- max. rated current fuse holder: 125 A
- with cover
- outgoing at the top
- lid fasteners for tool operation

centreline spacing of busbars	60 mm
rated voltage	AC 690 V
tightening torque for terminal	3.0 Nm terminal connection with saddle clamping unit 12.0 Nm screw connection M8



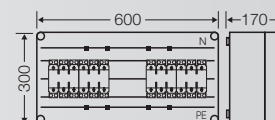
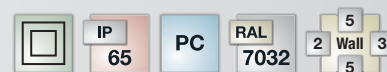
Mi 6463

4 x HRC 00, 3-pole

**Busbar rated current: 630 A
only for combination**

- Busbar 5-pole, Dimensions busbars: L1-L3: 30 x 10 mm, N: 25 x 10 mm, PE: 12 x 10 mm
- terminals for outgoing cables 4-35 mm², Cu (for terminal technology refer to index technical data)
- rated connecting capacity without terminals for incoming cables (for terminal technology refer to index technical data)
- with PE and N for copper conductors
- 4 terminals per PE+N
- N conductor with the same current carrying capacity as the phase conductors
- max. rated current fuse holder: 125 A
- with cover
- outgoing at the top
- lid fasteners for tool operation

centreline spacing of busbars	60 mm
rated voltage	AC 690 V
tightening torque for terminal	3.0 Nm terminal connection with saddle clamping unit 12.0 Nm screw connection M8



Mi Distribution Boards

**HRC fuse box with fuse elements, 3-pole,
in accordance with IEC 60 269**



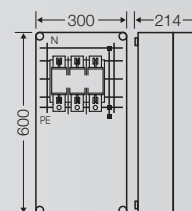
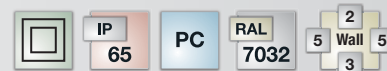
Mi 6474

1 x HRC 1, 3pole

Busbar rated current: 400 A

- Busbar 5-pole,
Dimensions busbars:
L1-L3: 20 x 10 mm, N: 12 x 10 mm, PE: 12 x 5 mm
- rated connecting capacity connection M 10
(for terminal technology refer to index technical data)
- with PE and N terminals
- 1 terminal per PE+N
- N conductor with the same current carrying capacity as the
phase conductors
- maximum rated current use of fuses: 250 A
- can be combined with Mi-Busbar boxes 250 A or 400 A
- lid fasteners for tool operation

centreline spacing of busbars	60 mm
rated voltage	AC 690 V
tightening torque for terminal	20,0 Nm



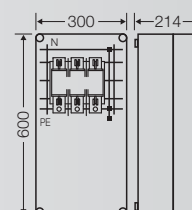
Mi 6475

1 x HRC 1, 3pole

Busbar rated current: 630 A

- Busbar 5-pole, Dimensions busbars: L1-L3: 30 x 10 mm, N: 25 x 10 mm, PE: 12 x 10 mm
- rated connecting capacity connection M 10 (for terminal technology refer to index technical data)
- with PE and N terminals
- 1 terminal per PE+N
- N conductor with the same current carrying capacity as the phase conductors
- maximum rated current use of fuses: 250 A
- can be combined with Mi-Busbar boxes 630 A
- lid fasteners for tool operation

centreline spacing of busbars	60 mm
rated voltage	AC 690 V
tightening torque for terminal	20,0 Nm



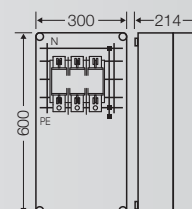
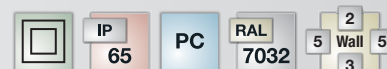
Mi 6476

1 x HRC 2, 3pole

Busbar rated current: 400 A

- Busbar 5-pole,
Dimensions busbars:
L1-L3: 20 x 10 mm, N: 12 x 10 mm, PE: 12 x 5 mm
- rated connecting capacity connection M 10
(for terminal technology refer to index technical data)
- with PE and N terminals
- 1 terminal per PE+N
- N conductor with the same current carrying capacity as the
phase conductors
- maximum rated current use of fuses: 400 A
- can be combined with Mi-Busbar boxes 250 A or 400 A
- lid fasteners for tool operation

centreline spacing of busbars	60 mm
rated voltage	AC 690 V
tightening torque for terminal	20,0 Nm





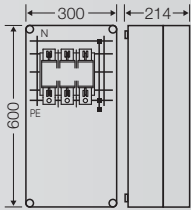
Mi 6477

1 x HRC 2, 3pole

Busbar rated current: 630 A

- Busbar 5-pole, Dimensions busbars: L1-L3: 30 x 10 mm, N: 25 x 10 mm, PE: 12 x 10 mm
- rated connecting capacity connection M 10 (for terminal technology refer to index technical data)
- with PE and N terminals
- 1 terminal per PE+N
- N conductor with the same current carrying capacity as the phase conductors
- maximum rated current use of fuses: 400 A
- can be combined with Mi-Busbar boxes 630 A
- lid fasteners for tool operation

centreline spacing of busbars	60 mm
rated voltage	AC 690 V
tightening torque for terminal	20,0 Nm





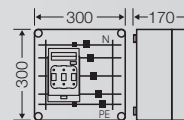
Mi 6226

1 x HRC 00, 3-pole

Busbar rated current: 250 A

- busbar 5-pole, dimensions busbars: L1-L3: 12 x 10 mm, N: 12 x 5 mm, PE: 12 x 5 mm
- terminals for outgoing cables 4-35 mm², terminals for incoming terminals 25-70 mm², Cu connection Mi VS 100/160/250/400 (for terminal technology refer to index technical data)
- with PE and N for copper conductors
- 1 terminal per PE+N
- max. rated current fuse holder: 125 A
- N conductor with the same current carrying capacity as the phase conductors
- outgoing cables can be changed to top or bottom
- with cover
- lid fasteners for tool operation

centreline spacing of busbars	60 mm
rated voltage	AC 690 V
tightening torque for terminal	terminal 6.0 Nm



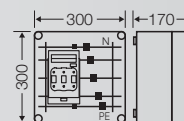
Mi 6227

1 x HRC 00, 3-pole

Busbar rated current: 400 A

- Busbar 5-pole, Dimensions busbars: L1-L3: 20 x 10 mm, N: 12 x 10 mm, PE: 12 x 5 mm
- terminals for outgoing cables 4-35 mm², terminals for incoming terminals 25-70 mm², Cu connection Mi VS 100/160/250/400 (for terminal technology refer to index technical data)
- with PE and N for copper conductors
- 1 terminal per PE+N
- max. rated current fuse holder: 125 A
- N conductor with the same current carrying capacity as the phase conductors
- outgoing cables can be changed to top or bottom
- with cover
- lid fasteners for tool operation

centreline spacing of busbars	60 mm
rated voltage	AC 690 V
tightening torque for terminal	terminal 6.0 Nm



**HRC fuse boxes with fuse switch disconnectors
with fuse switch disconnectors in accordance with IEC 60 947-3**

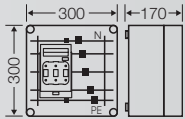


Mi 6228

1 x HRC 00, 3-pole

Busbar rated current: 630 A

- Busbar 5-pole, Dimensions busbars: L1-L3: 30 x 10 mm, N: 25 x 10 mm, PE: 12 x 10 mm
- terminals for outgoing cables 4-35 mm², terminals for incoming terminals 25-70 mm², Cu connection Mi VS 100/160/250/400 (for terminal technology refer to index technical data)
- with PE and N for copper conductors
- 1 terminal per PE+N
- max. rated current fuse holder: 125 A
- N conductor with the same current carrying capacity as the phase conductors
- outgoing cables can be changed to top or bottom
- with cover
- lid fasteners for tool operation



centreline spacing of busbars	60 mm
rated voltage	AC 690 V
tightening torque for terminal	terminal 6.0 Nm



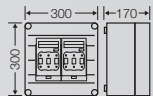
Mi 6265

2 x HRC 00, 3-pole

Busbar rated current: 250 A

only for combination

- busbar 5-pole, dimensions busbars: L1-L3: 12 x 10 mm, N: 12 x 5 mm, PE: 12 x 5 mm
- terminals for outgoing cables 4-35 mm², Cu without supply cable (for terminal technology refer to index technical data)
- with PE and N for copper conductors
- 2 terminals per PE+N
- max. rated current fuse holder: 125 A
- N conductor with the same current carrying capacity as the phase conductors
- outgoing cables can be changed to top or bottom
- with cover
- lid fasteners for tool operation



centreline spacing of busbars	60 mm
rated voltage	AC 690 V
tightening torque for terminal	terminal 6.0 Nm

**HRC fuse boxes with fuse switch disconnectors
with fuse switch disconnectors in accordance with IEC 60 947-3**

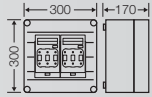


Mi 6266

**2 x HRC 00, 3-pole
Busbar rated current: 400 A
only for combination**



- Busbar 5-pole,
Dimensions busbars:
L1-L3: 20 x 10 mm, N: 12 x 10 mm, PE: 12 x 5 mm
- terminals for outgoing cables 4-35 mm², Cu without supply cable
(for terminal technology refer to index technical data)
- with PE and N for copper conductors
- 2 terminals per PE+N
- max. rated current fuse holder: 125 A
- N conductor with the same current carrying capacity as the
phase conductors
- outgoing cables can be changed to top or bottom
- with cover
- lid fasteners for tool operation



centreline spacing of busbars	60 mm
tightening torque for terminal	terminal 6.0 Nm
rated voltage	Ue= AC 690 V

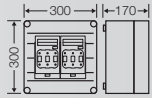


Mi 6267

**2 x HRC 00, 3-pole
Busbar rated current: 630 A
only for combination**



- Busbar 5-pole, Dimensions busbars: L1-L3: 30 x 10 mm,
N: 25 x 10 mm, PE: 12 x 10 mm
- terminals for outgoing cables 4-35 mm², Cu without supply cable
(for terminal technology refer to index technical data)
- with PE and N for copper conductors
- 2 terminals per PE+N
- max. rated current fuse holder: 125 A
- N conductor with the same current carrying capacity as the
phase conductors
- outgoing cables can be changed to top or bottom
- with cover
- lid fasteners for tool operation



centreline spacing of busbars	60 mm
tightening torque for terminal	terminal 6.0 Nm
rated voltage	Ue= AC 690 V

**HRC fuse boxes with fuse switch disconnectors
with fuse switch disconnectors in accordance with IEC 60 947-3**

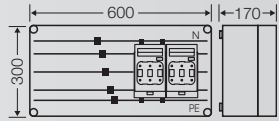


Mi 6426

2 x HRC 00, 3-pole

Busbar rated current: 250 A

- busbar 5-pole, dimensions busbars: L1-L3: 12 x 10 mm, N: 12 x 5 mm, PE: 12 x 5 mm
- terminals for outgoing cables 4-35 mm², terminals for incoming terminals 25-70 mm², Cu connection Mi VS 100/160/250/400 (for terminal technology refer to index technical data)
- with PE and N for copper conductors
- 2 terminals per PE+N
- max. rated current fuse holder: 125 A
- N conductor with the same current carrying capacity as the phase conductors
- outgoing cables can be changed to top or bottom
- with cover
- lid fasteners for tool operation



centreline spacing of busbars	60 mm
rated voltage	AC 690 V
tightening torque for terminal	terminal 6.0 Nm

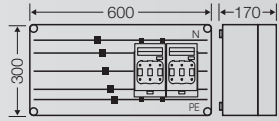


Mi 6427

2 x HRC 00, 3-pole

Busbar rated current: 400 A

- Busbar 5-pole,
Dimensions busbars:
L1-L3: 20 x 10 mm, N: 12 x 10 mm, PE: 12 x 5 mm
- terminals for outgoing cables 4-35 mm², terminals for incoming terminals 25-70 mm², Cu connection Mi VS 100/160/250/400 (for terminal technology refer to index technical data)
- with PE and N for copper conductors
- 2 terminals per PE+N
- max. rated current fuse holder: 125 A
- N conductor with the same current carrying capacity as the phase conductors
- outgoing cables can be changed to top or bottom
- with cover
- lid fasteners for tool operation



centreline spacing of busbars	60 mm
rated voltage	AC 690 V
tightening torque for terminal	terminal 6.0 Nm



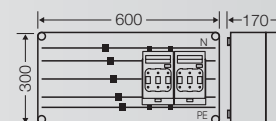
Mi 6428

2 x HRC 00, 3-pole

Busbar rated current: 630 A

- Busbar 5-pole, Dimensions busbars: L1-L3: 30 x 10 mm, N: 25 x 10 mm, PE: 12 x 10 mm
- terminals for outgoing cables 4-35 mm², terminals for incoming terminals 25-70 mm², Cu connection Mi VS 100/160/250/400 (for terminal technology refer to index technical data)
- with PE and N for copper conductors
- 2 terminals per PE+N
- N conductor with the same current carrying capacity as the phase conductors
- max. rated current fuse holder: 125 A
- outgoing cables can be changed to top or bottom
- with cover
- lid fasteners for tool operation

centreline spacing of busbars	60 mm
rated voltage	AC 690 V
tightening torque for terminal	terminal 6.0 Nm



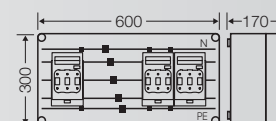
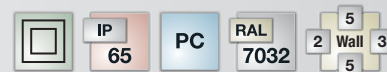
Mi 6436

3 x HRC 00, 3-pole

Busbar rated current: 250 A

- busbar 5-pole, dimensions busbars: L1-L3: 12 x 10 mm, N: 12 x 5 mm, PE: 12 x 5 mm
- terminals for outgoing cables 4-35 mm², terminals for incoming terminals 25-70 mm², Cu connection Mi VS 100/160/250/400 (for terminal technology refer to index technical data)
- with PE and N for copper conductors
- 3 terminals per PE+N
- N conductor with the same current carrying capacity as the phase conductors
- max. rated current fuse holder: 125 A
- outgoing cables can be changed to top or bottom
- with cover
- lid fasteners for tool operation

centreline spacing of busbars	60 mm
rated voltage	AC 690 V
tightening torque for terminal	terminal 6.0 Nm





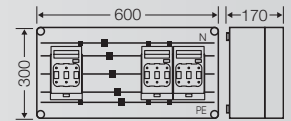
Mi 6437

3 x HRC 00, 3-pole

Busbar rated current: 400 A

- Busbar 5-pole,
Dimensions busbars:
L1-L3: 20 x 10 mm, N: 12 x 10 mm, PE: 12 x 5 mm
- terminals for outgoing cables 4-35 mm²,
terminals for incoming terminals 25-70 mm², Cu
connection Mi VS 100/160/250/400
(for terminal technology refer to index technical data)
- with PE and N for copper conductors
- 3 terminals per PE+N
- N conductor with the same current carrying capacity as the
phase conductors
- max. rated current fuse holder: 125 A
- outgoing cables can be changed to top or bottom
- with cover
- lid fasteners for tool operation

centreline spacing of busbars	60 mm
rated voltage	AC 690 V
tightening torque for terminal	terminal 6.0 Nm



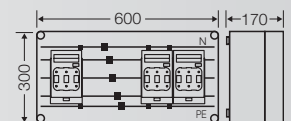
Mi 6438

3 x HRC 00, 3-pole

Busbar rated current: 630 A

- Busbar 5-pole, Dimensions busbars: L1-L3: 30 x 10 mm,
N: 25 x 10 mm, PE: 12 x 10 mm
- terminals for outgoing cables 4-35 mm²,
terminals for incoming terminals 25-70 mm², Cu
connection Mi VS 100/160/250/400
(for terminal technology refer to index technical data)
- with PE and N for copper conductors
- 3 terminals per PE+N
- N conductor with the same current carrying capacity as the
phase conductors
- max. rated current fuse holder: 125 A
- outgoing cables can be changed to top or bottom
- with cover
- lid fasteners for tool operation

centreline spacing of busbars	60 mm
rated voltage	AC 690 V
tightening torque for terminal	terminal 6.0 Nm





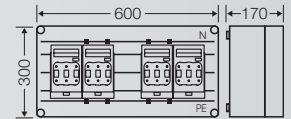
Mi 6465

4 x HRC 00, 3-pole

Busbar rated current: 250 A

only for combination

- busbar 5-pole, dimensions busbars: L1-L3: 12 x 10 mm, N: 12 x 5 mm, PE: 12 x 5 mm
- terminals for outgoing cables 4-35 mm², Cu without supply cable (for terminal technology refer to index technical data)
- with PE and N for copper conductors
- 4 terminals per PE+N
- N conductor with the same current carrying capacity as the phase conductors
- max. rated current fuse holder: 125 A
- outgoing cables can be changed to top or bottom
- with cover
- lid fasteners for tool operation



centreline spacing of busbars	60 mm
rated voltage	AC 690 V
tightening torque for terminal	terminal 6.0 Nm



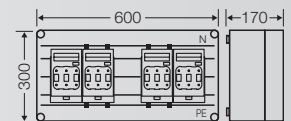
Mi 6466

4 x HRC 00, 3-pole

Busbar rated current: 400 A

only for combination

- Busbar 5-pole,
Dimensions busbars:
L1-L3: 20 x 10 mm, N: 12 x 10 mm, PE: 12 x 5 mm
- terminals for outgoing cables 4-35 mm², Cu without supply cable (for terminal technology refer to index technical data)
- with PE and N for copper conductors
- 4 terminals per PE+N
- N conductor with the same current carrying capacity as the phase conductors
- max. rated current fuse holder: 125 A
- outgoing cables can be changed to top or bottom
- with cover
- lid fasteners for tool operation



centreline spacing of busbars	60 mm
rated voltage	AC 690 V
tightening torque for terminal	terminal 6.0 Nm



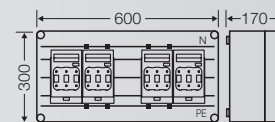
Mi 6467

4 x HRC 00, 3-pole

Busbar rated current: 630 A

only for combination

- Busbar 5-pole, Dimensions busbars: L1-L3: 30 x 10 mm, N: 25 x 10 mm, PE: 12 x 10 mm
- terminals for outgoing cables 4-35 mm², Cu without supply cable (for terminal technology refer to index technical data)
- with PE and N for copper conductors
- 4 terminals per PE+N
- N conductor with the same current carrying capacity as the phase conductors
- max. rated current fuse holder: 125 A
- outgoing cables can be changed to top or bottom
- with cover
- lid fasteners for tool operation



centreline spacing of busbars	60 mm
rated voltage	AC 690 V
tightening torque for terminal	terminal 6.0 Nm

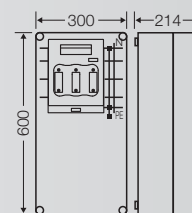


Mi 6478

1 x HRC 1, 3pole

Busbar rated current: 400 A

- Busbar 5-pole, Dimensions busbars: L1-L3: 20 x 10 mm, N: 12 x 10 mm, PE: 12 x 5 mm
- connection: M 10 (for terminal technology refer to index technical data)
- with PE and N terminals
- 1 terminal per PE+N
- N conductor with the same current carrying capacity as the phase conductors
- maximum rated current use of fuses: 250 A
- outgoing cable changeable above or below
- can be combined with Mi-Busbar boxes 250 A or 400 A
- lid fasteners for tool operation



centreline spacing of busbars	60 mm
rated voltage	AC 690 V
tightening torque for terminal	20,0 Nm

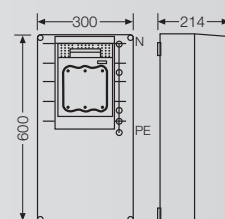
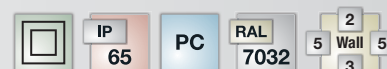


Mi 6479

1 x HRC 1, 3pole

Busbar rated current: 630 A

- Busbar 5-pole, Dimensions busbars: L1-L3: 30 x 10 mm, N: 25 x 10 mm, PE: 12 x 10 mm
- connection: M 10 (for terminal technology refer to index technical data)
- with PE and N terminals
- 1 terminal per PE+N
- N conductor with the same current carrying capacity as the phase conductors
- maximum rated current use of fuses: 250 A
- can be combined with Mi-Busbar boxes 630 A
- lid fasteners for tool operation



centreline spacing of busbars	60 mm
rated voltage	AC 690 V
tightening torque for terminal	20,0 Nm

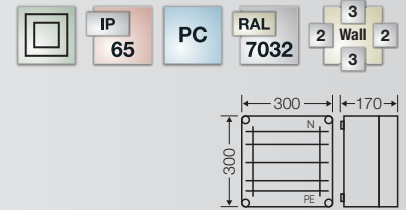


Mi 6252

Busbar rated current: 250 A

- busbar 5-pole, dimensions busbars: L1-L3: 12 x 10 mm, N: 12 x 5 mm, PE: 12 x 5 mm
- N conductor with the same current carrying capacity as the phase conductors
- distance between busbar supports to be equipped: 225 mm
- without supply cable
- lid fasteners for tool operation

rated peak withstand current resistance (Ipk)	30 kA
centreline spacing of busbars	60 mm

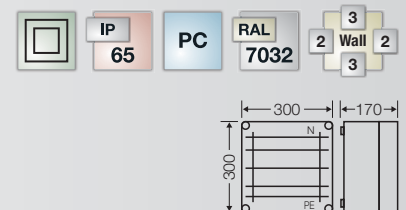


Mi 6255

Busbar rated current: 400 A

- Busbar 5-pole, Dimensions busbars: L1-L3: 20 x 10 mm, N: 12 x 10 mm, PE: 12 x 5 mm
- distance between busbar supports to be equipped: 225 mm
- N conductor with the same current carrying capacity as the phase conductors
- without supply cable
- lid fasteners for tool operation

rated peak withstand current resistance (Ipk)	30 kA
centreline spacing of busbars	60 mm

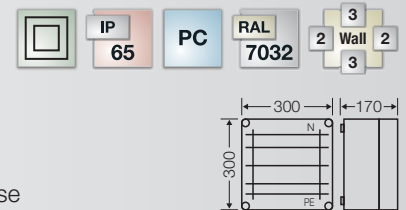


Mi 6256

Busbar rated current: 630 A}

- Busbar 5-pole, Dimensions busbars: L1-L3: 30 x 10 mm, N: 25 x 10 mm, PE: 12 x 10 mm
- distance between busbar supports to be equipped: 225 mm
- N conductor with the same current carrying capacity as the phase conductors
- without supply cable
- lid fasteners for tool operation

rated peak withstand current resistance (Ipk)	45 kA
centreline spacing of busbars	60 mm

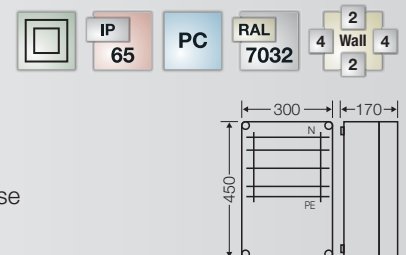


Mi 6352

Busbar rated current: 250 A

- busbar 5-pole, dimensions busbars: L1-L3: 12 x 10 mm, N: 12 x 5 mm, PE: 12 x 5 mm
- distance between busbar supports to be equipped: 225 mm
- N conductor with the same current carrying capacity as the phase conductors
- without supply cable
- lid fasteners for tool operation

rated peak withstand current resistance (Ipk)	30 kA
centreline spacing of busbars	60 mm



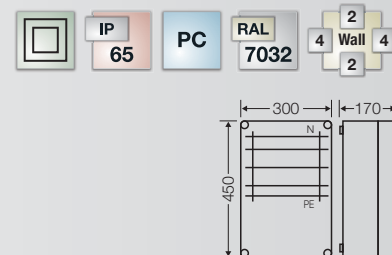


Mi 6355

Busbar rated current: 400 A

- Busbar 5-pole,
Dimensions busbars:
L1-L3: 20 x 10 mm, N: 12 x 10 mm, PE: 12 x 5 mm
- distance between busbar supports to be equipped: 225 mm
- N conductor with the same current carrying capacity as the phase conductors
- without supply cable
- lid fasteners for tool operation

rated peak withstand current resistance (Ipk)	30 kA
centreline spacing of busbars	60 mm

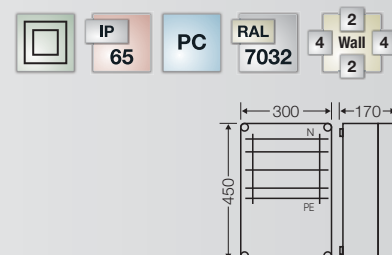


Mi 6356

Busbar rated current: 630 A

- Busbar 5-pole, Dimensions busbars: L1-L3: 30 x 10 mm,
N: 25 x 10 mm, PE: 12 x 10 mm
- distance between busbar supports to be equipped: 225 mm
- N conductor with the same current carrying capacity as the phase conductors
- without supply cable
- lid fasteners for tool operation

rated peak withstand current resistance (Ipk)	45 kA
centreline spacing of busbars	60 mm

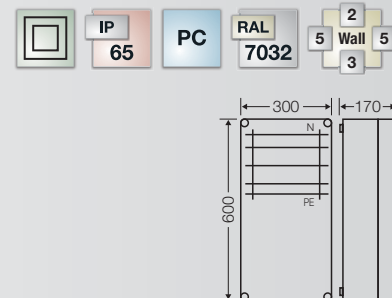


Mi 6457

Busbar rated current: 250 A

- busbar 5-pole, dimensions busbars: L1-L3: 12 x 10 mm,
N: 12 x 5 mm, PE: 12 x 5 mm
- distance between busbar supports to be equipped: 225 mm
- N conductor with the same current carrying capacity as the phase conductors
- without supply cable
- lid fasteners for tool operation

rated peak withstand current resistance (Ipk)	30 kA
centreline spacing of busbars	60 mm

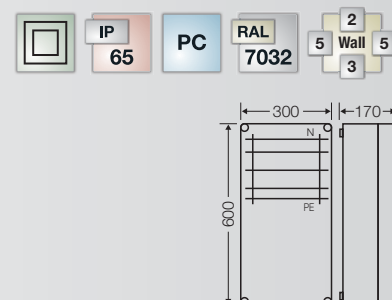


Mi 6458

Busbar rated current: 400 A

- Busbar 5-pole,
Dimensions busbars:
L1-L3: 20 x 10 mm, N: 12 x 10 mm, PE: 12 x 5 mm
- distance between busbar supports to be equipped: 225 mm
- N conductor with the same current carrying capacity as the phase conductors
- without supply cable
- lid fasteners for tool operation

rated peak withstand current resistance (Ipk)	30 kA
centreline spacing of busbars	60 mm



Mi Distribution Boards

Busbar Box

for combination with fuse Boxes

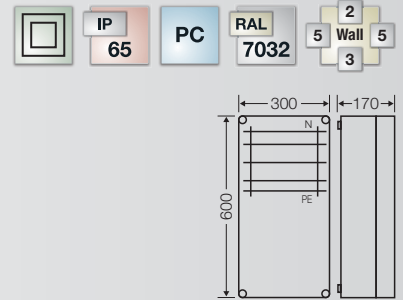


Mi 6459

Busbar rated current: 630 A

- Busbar 5-pole, Dimensions busbars: L1-L3: 30 x 10 mm, N: 25 x 10 mm, PE: 12 x 10 mm
- distance between busbar supports to be equipped: 225 mm
- N conductor with the same current carrying capacity as the phase conductors
- without supply cable
- lid fasteners for tool operation

rated peak withstand current resistance (Ipk)	45 kA
centreline spacing of busbars	60 mm

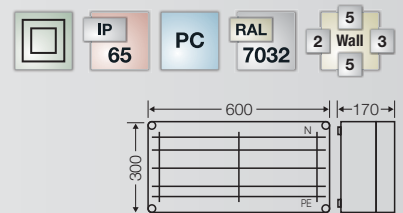


Mi 6452

Busbar rated current: 250 A

- busbar 5-pole, dimensions busbars: L1-L3: 12 x 10 mm, N: 12 x 5 mm, PE: 12 x 5 mm
- distance between busbar supports to be equipped: 450 mm
- N conductor with the same current carrying capacity as the phase conductors
- without supply cable
- lid fasteners for tool operation

rated peak withstand current resistance (Ipk)	30 kA
centreline spacing of busbars	60 mm

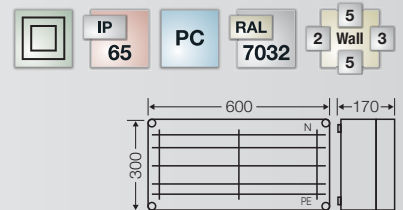


Mi 6455

Busbar rated current: 400 A

- Busbar 5-pole, Dimensions busbars: L1-L3: 20 x 10 mm, N: 12 x 10 mm, PE: 12 x 5 mm
- distance between busbar supports to be equipped: 450 mm
- N conductor with the same current carrying capacity as the phase conductors
- without supply cable
- lid fasteners for tool operation

rated peak withstand current resistance (Ipk)	30 kA
centreline spacing of busbars	60 mm

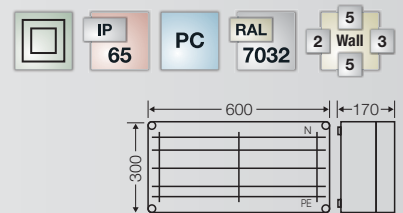


Mi 6456

Busbar rated current: 630 A}

- Busbar 5-pole, Dimensions busbars: L1-L3: 30 x 10 mm, N: 25 x 10 mm, PE: 12 x 10 mm
- distance between busbar supports to be equipped: 450 mm
- N conductor with the same current carrying capacity as the phase conductors
- without supply cable
- lid fasteners for tool operation

rated peak withstand current resistance (Ipk)	45 kA
centreline spacing of busbars	60 mm



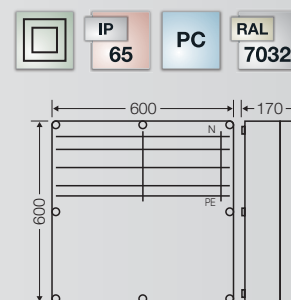


Mi 6852

Busbar rated current: 250 A

- busbar 5-pole, dimensions busbars: L1-L3: 12 x 10 mm, N: 12 x 5 mm, PE: 12 x 5 mm
- distance between busbar supports to be equipped: 450 mm
- N conductor with the same current carrying capacity as the phase conductors
- without supply cable
- cable entry only possible via flange
- lid fasteners for tool operation

rated peak withstand current resistance (Ipk)	30 kA
centreline spacing of busbars	60 mm

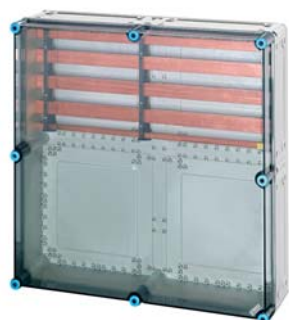
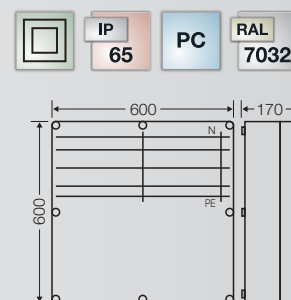


Mi 6855

Busbar rated current: 400 A

- Busbar 5-pole, Dimensions busbars: L1-L3: 20 x 10 mm, N: 12 x 10 mm, PE: 12 x 5 mm
- distance between busbar supports to be equipped: 450 mm
- N conductor with the same current carrying capacity as the phase conductors
- without supply cable
- cable entry only possible via flange
- lid fasteners for tool operation

rated peak withstand current resistance (Ipk)	30 kA
centreline spacing of busbars	60 mm

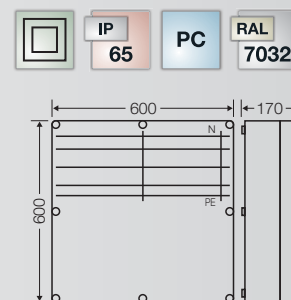


Mi 6856

Busbar rated current: 630 A

- Busbar 5-pole, Dimensions busbars: L1-L3: 30 x 10 mm, N: 25 x 10 mm, PE: 12 x 10 mm
- distance between busbar supports to be equipped: 450 mm
- N conductor with the same current carrying capacity as the phase conductors
- without supply cable
- cable entry only possible via flange
- lid fasteners for tool operation

rated peak withstand current resistance (Ipk)	45 kA
centreline spacing of busbars	60 mm



Busbar Boxes

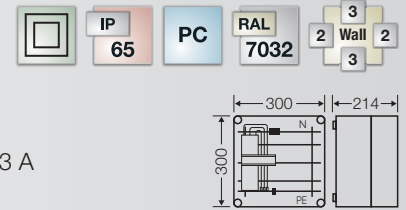
prepared for Miniature Circuit-Breakers (MCB)



Mi 6202

Busbar rated current: 250 A

- busbar 5-pole, dimensions busbars: L1-L3: 12 x 10 mm, N: 12 x 5 mm, PE: 12 x 5 mm
- with busbar adapter for miniature circuit-breakers (MCB) up to 63 A rated current
- for mounting on DIN rail
- with 1 x PE terminal and 3 x N terminals 1.5 - 16 mm²
- N conductor with the same current carrying capacity as the phase conductors
- cut-out of 6 modules
- protection cover can be sealed
- with lockable blanking strips
- lid fasteners for hand operation



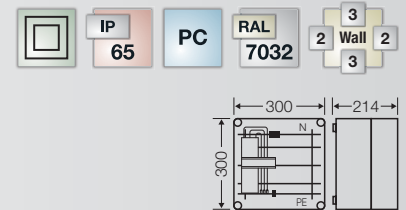
centreline spacing of busbars 60 mm



Mi 6204

Busbar rated current: 400 A

- Busbar 5-pole, Dimensions busbars: L1-L3: 20 x 10 mm, N: 12 x 10 mm, PE: 12 x 5 mm
- with busbar adapter for miniature circuit-breakers (MCB) up to 63 A rated current
- for mounting on DIN rail
- with 1 x PE terminal and 3 x N terminals 1.5 - 16 mm²
- N conductor with the same current carrying capacity as the phase conductors
- cut-out of 6 modules
- protection cover can be sealed
- with lockable blanking strips
- lid fasteners for hand operation



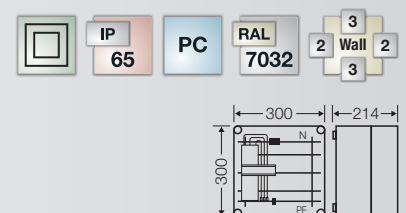
centreline spacing of busbars 60 mm



Mi 6206

Busbar rated current: 630 A

- Busbar 5-pole, Dimensions busbars: L1-L3: 30 x 10 mm, N: 25 x 10 mm, PE: 12 x 10 mm
- with busbar adapter for miniature circuit-breakers (MCB) up to 63 A rated current
- for mounting on DIN rail
- with 1 x PE terminal and 3 x N terminals 1.5 - 16 mm²
- N conductor with the same current carrying capacity as the phase conductors
- cut-out of 6 modules
- protection cover can be sealed
- with lockable blanking strips
- lid fasteners for hand operation



centreline spacing of busbars 60 mm

Busbar Boxes

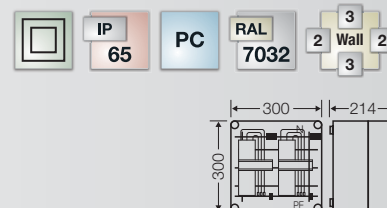
prepared for Miniature Circuit-Breakers (MCB)



Mi 6203

Busbar rated current: 250 A

- busbar 5-pole, dimensions busbars: L1-L3: 12 x 10 mm, N: 12 x 5 mm, PE: 12 x 5 mm
- with 2 adapters for miniature circuit breakers (MCB) up to 63 A rated current
- for mounting on DIN rail
- with 2 x PE terminals and 6 x N terminals 1.5 -16 mm²
- N conductor with the same current carrying capacity as the phase conductors
- cut-out 2 x 6 modules
- protection cover can be sealed
- with lockable blanking strips
- lid fasteners for hand operation



centreline spacing of busbars

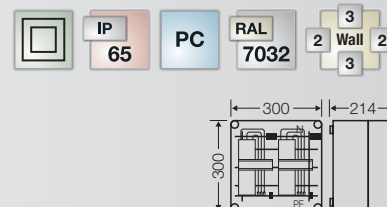
60 mm



Mi 6205

Busbar rated current: 400 A

- Busbar 5-pole, Dimensions busbars: L1-L3: 20 x 10 mm, N: 12 x 10 mm, PE: 12 x 5 mm
- with 2 adapters for miniature circuit breakers (MCB) up to 63 A rated current
- for mounting on DIN rail
- with 2 x PE terminals and 6 x N terminals 1.5 -16 mm²
- N conductor with the same current carrying capacity as the phase conductors
- cut-out 2 x 6 modules
- protection cover can be sealed
- with lockable blanking strips
- lid fasteners for hand operation



centreline spacing of busbars

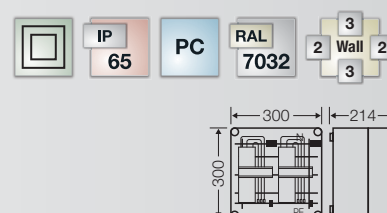
60 mm



Mi 6207

Busbar rated current: 630 A

- Busbar 5-pole, Dimensions busbars: L1-L3: 30 x 10 mm, N: 25 x 10 mm, PE: 12 x 10 mm
- with 2 adapters for miniature circuit breakers (MCB) up to 63 A rated current
- for mounting on DIN rail
- with 2 x PE terminals and 6 x N terminals 1.5 -16 mm²
- N conductor with the same current carrying capacity as the phase conductors
- cut-out 2 x 6 modules
- protection cover can be sealed
- with lockable blanking strips
- lid fasteners for hand operation



centreline spacing of busbars

60 mm

Mi Isolator Boxes

with built-in Switch Disconnectors in accordance with IEC 60 947-3

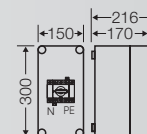


Mi 7103

63 A

3-pole PE + N

- connection: 2,5-35 mm², Cu or Mi VS 100
- with PE and N for copper conductors
- lid fasteners for tool operation
- lockable handle



switching capacity	30 kW AC-23A/B 400 V
maximum back-up fuse	80 A
rated voltage	Ue= AC 690 V

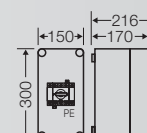


Mi 7104

63 A

4-polig PE

- connection: 2,5-35 mm², Cu or Mi VS 100
- with PE terminals for copper conductors
- lid fasteners for tool operation
- lockable handle



switching capacity	30 kW AC-23A/B 400 V
maximum back-up fuse	80 A
rated voltage	Ue= AC 690 V

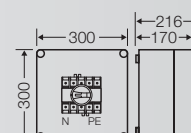


Mi 7213

100 A

3-pole PE + N

- connection: 10-35 mm², Cu or Mi VS 100
- with PE and N for copper conductors
- lid fasteners for tool operation
- lockable handle



switching capacity	45 kW AC-23A/B 400 V
maximum back-up fuse	100 A
rated voltage	Ue= AC 690 V

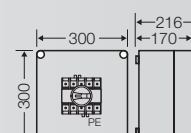


Mi 7214

100 A

4-polig PE

- connection: 10-35 mm², Cu or Mi VS 100
- with PE terminals for copper conductors
- lid fasteners for tool operation
- lockable handle



switching capacity	45 kW AC-23A/B 400 V
maximum back-up fuse	100 A
rated voltage	Ue= AC 690 V

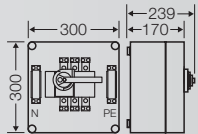
Mi Isolator Boxes
with built-in **Switch Disconnectors** in accordance with IEC 60 947-3



Mi 7256

160 A
3-pole PE + N

- connection: 6-70 mm², Cu or Mi VS 160
(for terminal technology refer to index technical data)
- with PE and N for copper conductors
- lid fasteners for tool operation
- lockable handle



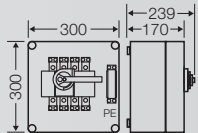
switching capacity	80 kW AC-23A/B 400 V
maximum back-up fuse	160 A
rated voltage	U _e = AC 500 V
tightening torque for terminal	3.0 Nm terminal connection with saddle clamping unit 10.0 Nm screw connection M8



Mi 7257

160 A
4-polig PE

- connection: 6-70 mm², Cu or Mi VS 160
(for terminal technology refer to index technical data)
- with PE terminals for copper conductors
- lid fasteners for tool operation
- lockable handle



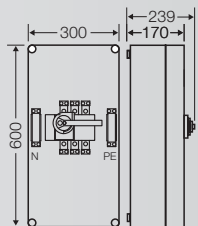
switching capacity	80 kW AC-23A/B 400 V
maximum back-up fuse	160 A
rated voltage	U _e = AC 500 V
tightening torque for terminal	3.0 Nm terminal connection with saddle clamping unit 10.0 Nm screw connection M8



Mi 7456

160 A
3-pole PE + N

- connection: 6-70 mm², Cu or Mi VS 160
(for terminal technology refer to index technical data)
- with PE and N for copper conductors
- lid fasteners for tool operation
- lockable handle



switching capacity	80 kW AC-23A/B 400 V
maximum back-up fuse	160 A
rated voltage	U _e = AC 500 V
tightening torque for terminal	3.0 Nm terminal connection with saddle clamping unit 10.0 Nm screw connection M8

Mi Isolator Boxes

with built-in Switch Disconnectors in accordance with IEC 60 947-3

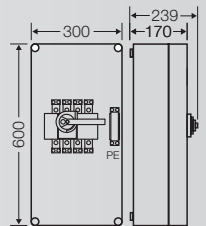


Mi 7457

**160 A
4-polig PE**

- connection: 6-70 mm², Cu or Mi VS 160
(for terminal technology refer to index technical data)
- with PE terminals for copper conductors
- lid fasteners for tool operation
- lockable handle

switching capacity	80 kW AC-23A/B 400 V
maximum back-up fuse	160 A
rated voltage	Ue= AC 500 V
tightening torque for terminal	3.0 Nm terminal connection with saddle clamping unit 10.0 Nm screw connection M8

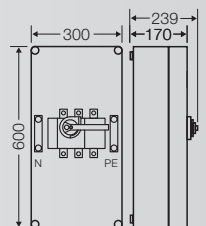


Mi 7455

**250 A
3-pole PE + N**

- connection: M 10 (max. 1 x 150 mm² per phase)
or VA 400 + Mi VS 250
(for terminal technology refer to index technical data)
- with PE and N for copper conductors
- lid fasteners for tool operation
- lockable handle

switching capacity	132 kW AC-23A/B 400 V
maximum back-up fuse	250 A
rated voltage	Ue= AC 500 V
tightening torque for terminal	20,0 Nm

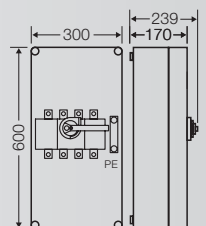


Mi 7454

**250 A
4-polig PE**

- connection: M 10 (max. 1 x 150 mm² per phase)
or VA 400 + Mi VS 250
(for terminal technology refer to index technical data)
- with PE terminals for copper conductors
- lid fasteners for tool operation
- lockable handle

switching capacity	132 kW AC-23A/B 400 V
maximum back-up fuse	250 A
rated voltage	Ue= AC 500 V
tightening torque for terminal	20,0 Nm





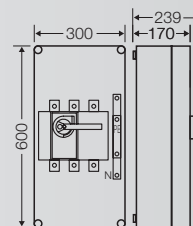
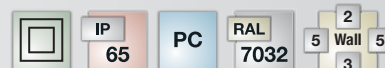
Mi 7445

400 A

3-pole PE + N

- connection: M 10 (max. 1 x 240 mm² per phase) or VA 400 + Mi VS 400 (for terminal technology refer to index technical data)
- with PE and N for copper conductors
- lid fasteners for tool operation
- lockable handle

switching capacity	220 kW AC-23A/B 400 V
maximum back-up fuse	400 A
rated voltage	U _e = AC 500 V
tightening torque for terminal	20,0 Nm



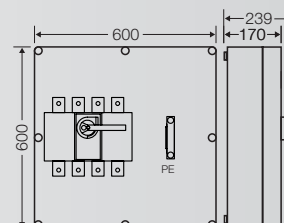
Mi 7846

400 A

4-polig PE

- connection: M 10 (max. 1 x 240 mm² je Phase) or VA 400 + Mi VS 400}
- with PE terminals for copper conductors
- cable entry only possible via flange
- lid fasteners for tool operation
- lockable handle

switching capacity	220 kW AC-23A/B 400 V
maximum back-up fuse	400 A
rated voltage	U _e = AC 500 V
tightening torque for terminal	20,0 Nm



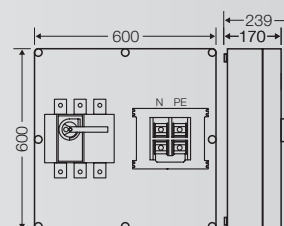
Mi 7865

630 A

3-pole PE + N

- connection L1 - L3: M 12 / VA 630 + Mi VS 630
connection PE + N: 1 x 120-300 / 2 x 95-185, Cu / Mi VS 630 (for terminal technology refer to index technical data)
- with removable jumper between PE and N
- cable entry only possible via flange
- lid fasteners for tool operation
- lockable handle

switching capacity	280 kW AC-23A/B 400 V
maximum back-up fuse	630 A
rated voltage	U _e = AC 500 V
tightening torque for terminal	40,0 Nm
rated current	480 A with incoming cable from the top 580 A with incoming cable from the bottom





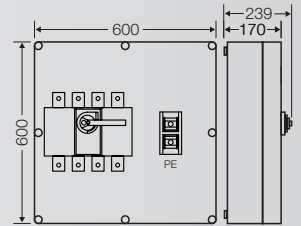
Mi 7866

630 A

4-polig PE

- connection L1 - L3, N: M 12 / VA 630 + Mi VS 630, connection PE: M 10 / VA 400 + Mi Mi VS 400 (for terminal technology refer to index technical data)
- with PE terminals for copper conductors
- cable entry only possible via flange
- lid fasteners for tool operation
- lockable handle

switching capacity	280 kW AC-23A/B 400 V
maximum back-up fuse	630 A
rated voltage	U _e = AC 500 V
tightening torque for terminal	40,0 Nm
rated current	480 A with incoming cable from the top 580 A with incoming cable from the bottom



Mi DA 72

Terminal Set for direct Connection to Equipment

max. 1 x 300 mm², Cu/Alu, 3-pole

- terminal for copper and aluminium conductors
- set with 3 pieces
- rated connecting capacity:
 - 1 x 120-300 mm² s / f (round)
 - 1 x 120-300 mm² s (sector)
 - 1 x 120-185 mm² sol (sector)
 - 2 x 70-150 mm² s / f (round)
 - 2 x 95-150 mm² s (sektor)
 - 2 x 70 mm² sol (round)
 - 2 x 95-150 mm² sol (sector)
- Reference to the preparation of aluminum conductors:
 1. Clean the bared conductor end carefully by scraping off the oxide film, for example with a knife, (Please do not use rasps, emery paper or brushes!).
 2. Immediately after removing the oxide film the conductor end is to rub in with acid and alkali free fat for example vaseline, and immediately to be connected in the terminal.
 3. The prementioned processing steps are to be repeated, if the conductor was disconnected and connected again.
 4. Due to the disposition to flowing of aluminum the terminals are to be re-tightened before start-up and after the first 200 operation hours.
- for the connection of switch disconnector 630 A (Mi 7865)
- width: 61 mm



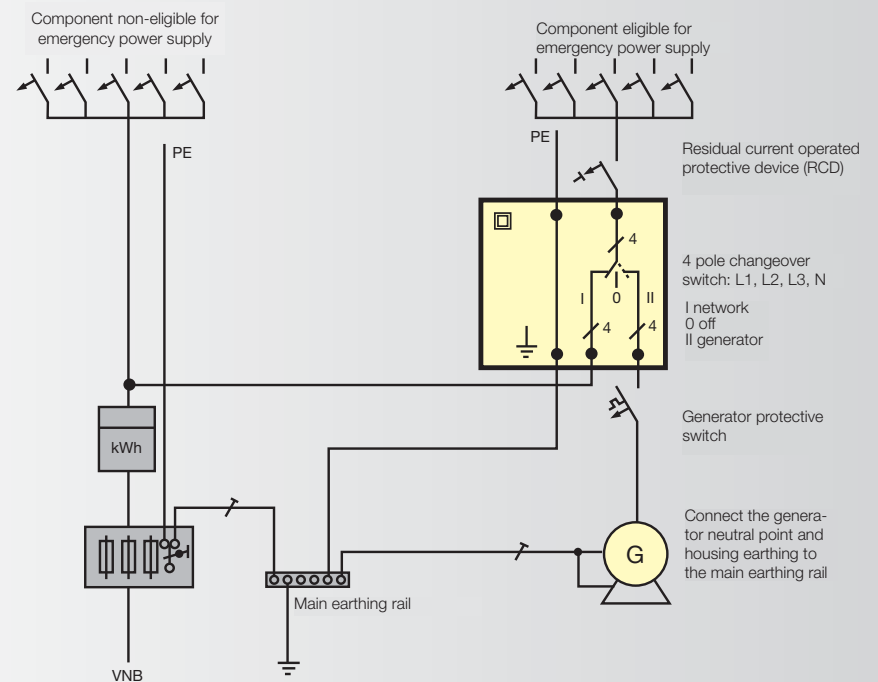
Network changeover switches (I-0-II) from Hensel reliably switch over to a stand-by power source

Network changeover switches are required as per the VDE regulations and the Association of Network Operators (VDN). They help in switching and isolating electrical load circuits and are used for changing over to the stand-by power source manually in case of a power failure.

The parallel operation of networks is reliably prevented due to the 0 setting.

A short term parallel operation is impossible, therefore no synchronisation is required.

Functional circuit diagram for a stand-by power supply in the TN system



If a stand-by power source, such as, e.g., a generator is used as switchable power supply alternative to the public network, then it must have a network changeover switch according to the standard!

Changeover switch boxes(I-0-II)

with built-in changeover switches in accordance with IEC 60 947-3

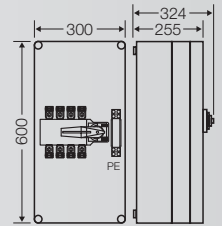


Mi 7481

160 A

4-polig PE

- connection: 6-70 mm², Cu or Mi VS 160
(for terminal technology refer to index technical data)
- with PE terminals for copper conductors
- Connection public power grid and substitute power supply from below, above consumer system, changeable
- kind of switch: I - 0 - II
- lid fasteners for tool operation
- lockable handle



switching capacity	80 kW
maximum back-up fuse	160 A
rated voltage	Ue= AC 500 V
tightening torque for terminal	3.0 Nm terminal connection with saddle clamping unit 10.0 Nm screw connection M8

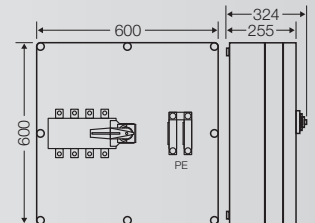


Mi 7882

250 A

4-polig PE

- connection: M 10 (max. 1 x 150 mm² per phase)
or VA 400 + Mi VS 250
(for terminal technology refer to index technical data)
- with PE terminals for copper conductors
- Connection public power grid and substitute power supply from below, above consumer system, changeable
- kind of switch: I - 0 - II
- lid fasteners for tool operation
- lockable handle

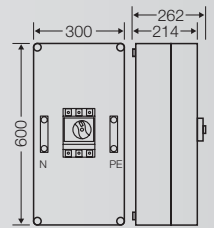


switching capacity	132 kW
maximum back-up fuse	250 A
rated voltage	Ue= AC 500 V
tightening torque for terminal	3.0 Nm terminal connection with saddle clamping unit 10.0 Nm screw connection M8


Mi 7431
160 A
3-pole PE + N

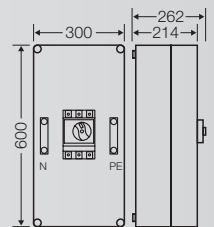
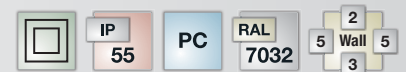
- connection: 70 mm², Cu or Mi VS 160
- with PE and N for copper conductors
- MCCB with overload and short-circuit release
- lid fasteners for tool operation
- lockable handle

rated voltage	AC 690 V
rated ultimate short-circuit breaking capacity	Ics = Icu AC 690 V 8 kA Ics = Icu AC 415 V 36 kA
overload release	setting range 112-160 A


Mi 7432
250 A
3-pole PE + N

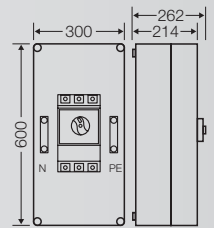
- connection: 150 mm², Cu or Mi VS 250
- with PE and N for copper conductors
- MCCB with overload and short-circuit release
- lid fasteners for tool operation
- lockable handle

rated voltage	AC 690 V
rated ultimate short-circuit breaking capacity	Ics = Icu AC 690 V 8 kA Ics = Icu AC 415 V 36 kA
overload release	setting range 175-250 A


Mi 7434
400 A
3-pole PE + N

- connection: M 10 / VA 400 + Mi VS 400 (for terminal technology refer to index technical data)
- with PE and N for copper conductors
- MCCB with overload and short-circuit release
- lid fasteners for tool operation
- lockable handle

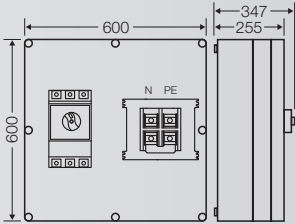
rated voltage	AC 690 V
rated ultimate short-circuit breaking capacity	Ics = Icu AC 690 V 10 kA Ics = Icu AC 415 V 36 kA
overload release	setting range 160-400 A





Mi 7836
630 A
3-pole PE + N

- connection L1 - L3: M 10 / VA 630 + Mi VS 630
- connection PE + N: 1 x 120-300 / 2 x 95-185, Cu / Mi VS 630 (for terminal technology refer to index technical data)
- with removable jumper between PE and N
- MCCB with overload and short-circuit release
- cable entry only possible via flange
- lid fasteners for tool operation
- lockable handle



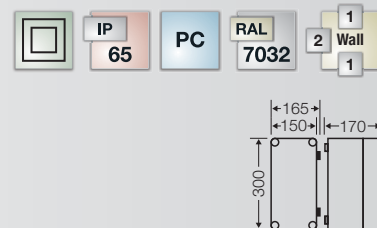
rated voltage	AC 690 V
rated ultimate short-circuit breaking capacity	Ics = Icu AC 690 V 10 kA Ics = Icu AC 415 V 45 kA
overload release	setting range 250-630 A
rated current	475 A with incoming cable from the top 530 A with incoming cable from the bottom



Mi 9100

Built-in dimensions W 125 x H 275 x D 150 mm

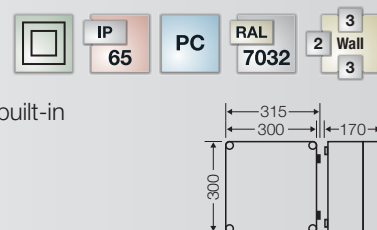
- max. installation depth with built-in mounting plate 146 mm, with built-in DIN rail 135 mm
- box size 1
- please order DIN rails, mounting plates or covers additionally
- 3 walls with metric knockouts for cable entry and assembly
- trilaterally combinable
- lid hinges attached
- with transparent, hinged lid
- lid fasteners for tool operation



Mi 9200

Built-in dimensions W 275 x H 275 x T 150 mm

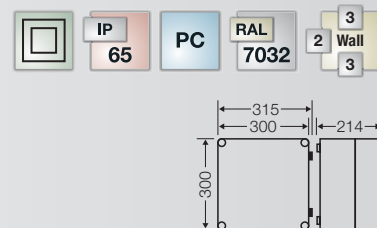
- max. installation depth with built-in mounting plate 146 mm, with built-in DIN rail 135 mm
- box size 2
- please order DIN rails, mounting plates or covers additionally
- trilaterally combinable
- 3 walls with metric knockouts for cable entry and assembly
- lid hinges attached
- with transparent, hinged lid
- lid fasteners for tool operation



Mi 9210

Built-in dimensions W 275 x H 275 x D 195 mm

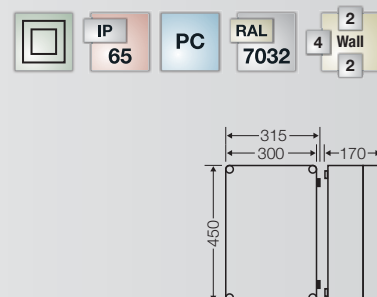
- max. installation depth with built-in mounting plate 191 mm, with built-in DIN rail 180 mm
- box size 2
- please order DIN rails, mounting plates or covers additionally
- trilaterally combinable
- 3 walls with metric knockouts for cable entry and assembly
- lid hinges attached
- with transparent, hinged lid
- lid fasteners for tool operation



Mi 9300

Built-in dimensions W 275 x H 425 x D 150 mm

- max. installation depth with built-in mounting plate 146 mm, with built-in DIN rail 135 mm
- box size 3
- please order DIN rails, mounting plates or covers additionally
- trilaterally combinable
- 3 walls with metric knockouts for cable entry and assembly
- lid hinges attached
- with transparent, hinged lid
- lid fasteners for tool operation

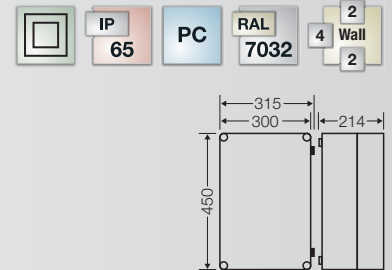




Mi 9310

Built-in dimensions W 275 x H 425 x D 195 mm

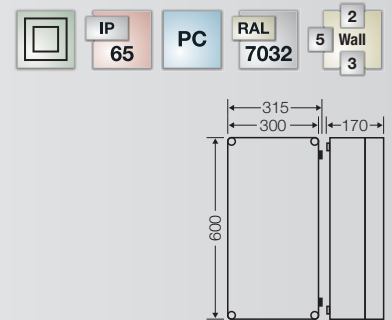
- max. installation depth with built-in mounting plate 191 mm, with built-in DIN rail 180 mm
- box size 3
- please order DIN rails, mounting plates or covers additionally
- trilaterally combinable
- 3 walls with metric knockouts for cable entry and assembly
- lid hinges attached
- with transparent, hinged lid
- lid fasteners for tool operation



Mi 9400

Built-in dimensions W 275 x H 575 x D 150 mm

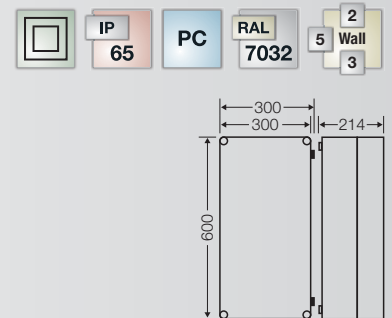
- max. installation depth with built-in mounting plate 146 mm, with built-in DIN rail 135 mm
- box size 4
- please order DIN rails, mounting plates or covers additionally
- trilaterally combinable
- 3 walls with metric knockouts for cable entry and assembly
- lid hinges attached
- with transparent, hinged lid
- lid fasteners for tool operation



Mi 9410

Built-in dimensions W 275 x H 575 x D 195 mm

- max. installation depth with built-in mounting plate 191 mm, with built-in DIN rail 180 mm
- box size 4
- please order DIN rails, mounting plates or covers additionally
- trilaterally combinable
- 3 walls with metric knockouts for cable entry and assembly
- lid hinges attached
- with transparent, hinged lid
- lid fasteners for tool operation

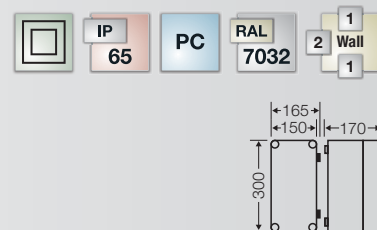




Mi 9101

Built-in dimensions W 125 x H 275 x D 150 mm

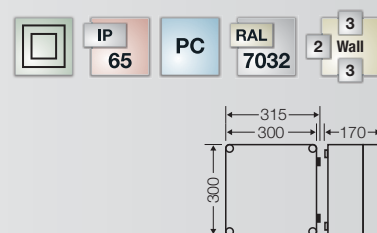
- max. installation depth with built-in mounting plate 146 mm, with built-in DIN rail 135 mm
- box size 1
- please order DIN rails, mounting plates or covers additionally
- trilaterally combinable
- 3 walls with metric knockouts for cable entry and assembly
- lid hinges attached
- with opaque, hinged lid
- lid fasteners for tool operation



Mi 9201

Built-in dimensions W 275 x H 275 x T 150 mm

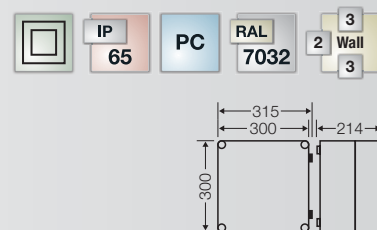
- max. installation depth with built-in mounting plate 146 mm, with built-in DIN rail 135 mm
- box size 2
- please order DIN rails, mounting plates or covers additionally
- trilaterally combinable
- 3 walls with metric knockouts for cable entry and assembly
- lid hinges attached
- with opaque, hinged lid
- lid fasteners for tool operation



Mi 9211

Built-in dimensions W 275 x H 275 x D 195 mm

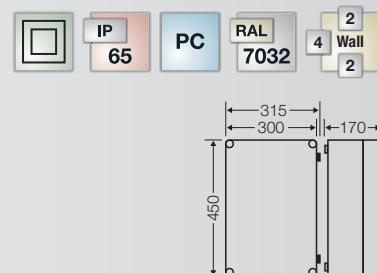
- max. installation depth with built-in mounting plate 191 mm, with built-in DIN rail 180 mm
- box size 2
- please order DIN rails, mounting plates or covers additionally
- trilaterally combinable
- 3 walls with metric knockouts for cable entry and assembly
- lid hinges attached
- with opaque, hinged lid
- lid fasteners for tool operation



Mi 9301

Built-in dimensions W 275 x H 425 x D 150 mm

- max. installation depth with built-in mounting plate 146 mm, with built-in DIN rail 135 mm
- box size 3
- please order DIN rails, mounting plates or covers additionally
- trilaterally combinable
- 3 walls with metric knockouts for cable entry and assembly
- lid hinges attached
- with opaque, hinged lid
- lid fasteners for tool operation

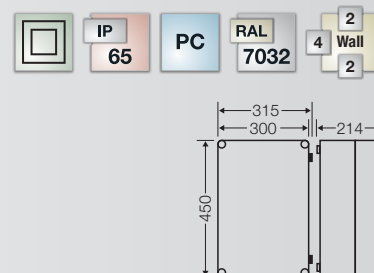




Mi 9311

Built-in dimensions W 275 x H 425 x D 195 mm

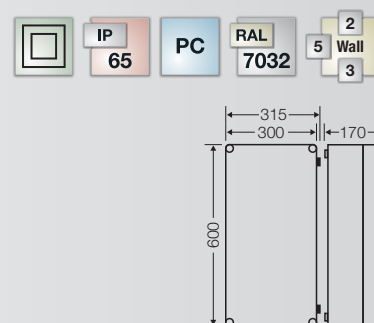
- max. installation depth with built-in mounting plate 191 mm, with built-in DIN rail 180 mm
- box size 3
- please order DIN rails, mounting plates or covers additionally
- trilaterally combinable
- 3 walls with metric knockouts for cable entry and assembly
- lid hinges attached
- with opaque, hinged lid
- lid fasteners for tool operation



Mi 9401

Built-in dimensions W 275 x H 575 x D 150 mm

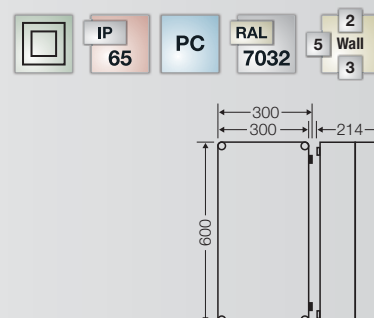
- max. installation depth with built-in mounting plate 146 mm, with built-in DIN rail 135 mm
- box size 4
- please order DIN rails, mounting plates or covers additionally
- trilaterally combinable
- 3 walls with metric knockouts for cable entry and assembly
- lid hinges attached
- with opaque, hinged lid
- lid fasteners for tool operation



Mi 9411

Built-in dimensions W 275 x H 575 x D 195 mm

- max. installation depth with built-in mounting plate 191 mm, with built-in DIN rail 180 mm
- box size 4
- please order DIN rails, mounting plates or covers additionally
- trilaterally combinable
- 3 walls with metric knockouts for cable entry and assembly
- lid hinges attached
- with opaque, hinged lid
- lid fasteners for tool operation





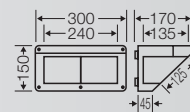
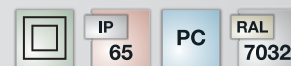
Connection Box	322
Extension frames, DIN rails, Spacers	323 - 324
Mounting plates, Fixing screws	325
Covers, Busbars, Busbar supports	326 - 327
Terminals for direct connection on busbars	328- 329
Wiring strips	330
Wiring terminals, Terminals for direct connection	331
Auxiliary contact, Open-circuit shunt release, Undervoltage release	332
Circuit-breaker terminal for direct connection	333
Terminals	334 - 339
HRC fuse switch disconnecter, Wall gasket, Wall separator, Fixing spares	340 - 341
Flanges, Ventilation flanges	342 - 345
Canopy	345
Conversion kits for lid fasteners	346
Hinges for lids	347
Hinged flap, protection covers for hinged flaps	348
Components for wall mounting	349 - 350



Mi CB 10

Connection Box

- for the installation of devices that must be operated externally, such as plug devices, push buttons and switches
- for mounting to box walls 300 mm
- hinged mounting area
- with wall gasket



Example:

The Connection Box allows a simple and fast installation of devices that must be operated externally.

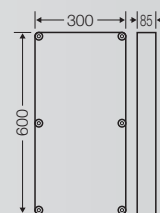




Mi ZR 4

Extension frame for enclosure size 4

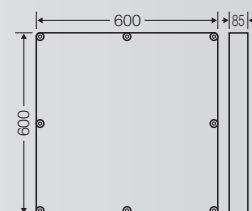
- for extension of the installation depth by 85 mm
- degree of protection IP 65 is maintained with use of up to two extension frames
- inclusive fixing material



Mi ZR 8

Extension frame for enclosure size 8

- for extension of the installation depth by 85 mm
- degree of protection IP 65 is maintained with use of up to two extension frames
- inclusive fixing material



Mi TS 15

DIN rail length 134 mm

- in accordance with DIN EN 60 715
- for Mi Empty box size 1
- for equipment or terminals with clip-on mounting
- with fixing screws



Mi TS 30

DIN rail length 284 mm

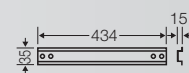
- in accordance with DIN EN 60 715
- for Mi empty box sizes 1 to 8
- for equipment or terminals with clip-on mounting
- with fixing screws



Mi TS 45

DIN rail length 434 mm

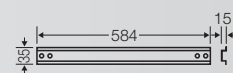
- in accordance with DIN EN 60 715
- for Mi empty box size 3
- for equipment or terminals with clip-on mounting
- with fixing screws



Mi TS 60

DIN rail length 584 mm

- in accordance with DIN EN 60 715
- for Mi empty box sizes 4 and 8
- for equipment or terminals with clip-on mounting
- with fixing screws





Mi DS 25

Spacer
height: 25 mm

- for spacing DIN-rails Mi TS ..
- 2 pieces
- with fixing screws for base of box and DIN rail



Mi DS 50

Spacer
height: 50 mm

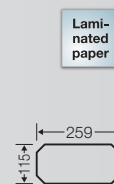
- for spacing DIN-rails Mi TS ..
- 2 pieces
- with fixing screws for base of box and DIN rail



Mi MP 1

Mounting plate
W 259 x H 115 mm

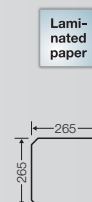
- material thickness 4 mm
- for Mi-Empty boxes sizes 1, 2, 3, 4
- with fixing screws



Mi MP 2

Mounting plate
W 265 x H 265 mm

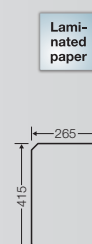
- material thickness 4 mm
- for Mi-Empty boxes sizes 2 to 8
- with fixing screws



Mi MP 3

Mounting plate
W 265 x H 415 mm

- material thickness 4 mm
- for Mi-Empty boxes sizes 3, 4
- with fixing screws



Mi MP 4

Mounting plate
W 265 x H 565 mm

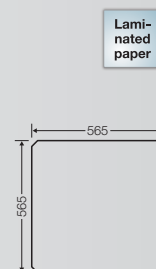
- material thickness 4 mm
- for Mi-Empty boxes sizes 4, 8
- with fixing screws



Mi MP 8

Mounting plate
W 565 x H 565 mm

- material thickness 4 mm
- for Mi Empty box size 8
- with fixing screws



Mi BZ 11

Fixing screw
length 11 mm

- for assembling DIN rails or mounting plates at the base of the box
- for material thicknesses of 1 to 2.5 mm
- self-tapping
- galvanised



Mi BZ 13

Fixing screw
length 13 mm

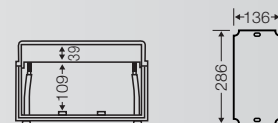
- for assembling DIN rails or mounting plates at the base of the box
- for material thicknesses of 2.5 to 4 mm
- self-tapping
- galvanised



Mi EP 01

Cover for Mi Empty box size 1

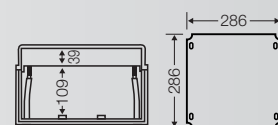
- for retrofitting
- cover without cut-outs made of plastics, as protection cover or for the installation of devices
- with fastening material



Mi EP 02

Cover for Mi Empty box size 2

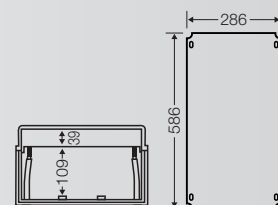
- for retrofitting
- cover without cut-outs made of plastics, as protection cover or for the installation of devices
- with fastening material



Mi EP 04

Cover for Mi Empty box size 4

- for retrofitting
- cover without cut-outs made of plastics, as protection cover or for the installation of devices
- with fastening material



Mi SS 22

Busbar 12 x 5 mm

- length 2400 mm
- conductor material: Cu
- busbar rated current 250 A as N/PE, 400 A as PE, with ENYSTAR as L1, L2, L3, N and PE 250 A



Mi SS 25

Busbar 12 x 10 mm

- length 2400 mm
- conductor material: Cu
- busbar rated current 250 A as L1-L3, 400 A as N, 630 A as PE



Mi SS 40

Busbar 20 x 10 mm

- length 2400 mm
- conductor material: Cu
- busbar rated current 400 A as L1-L3



Mi SS 45

Busbar 25 x 10 mm

- length 2400 mm
- conductor material: Cu
- busbar rated current 630 A as N



Mi SS 63

Busbar 30 x 10 mm

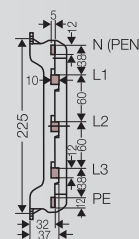
- length 2400 mm
- conductor material: Cu
- busbar rated current 630 A as L1-L3



Mi ST 25

Busbar support for busbars 250 A, 5-pole

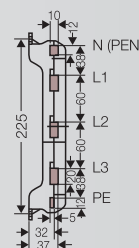
- centreline spacing of busbars: 60 mm
- for Installation in Mi empty boxes
- for busbars 12 x 10 mm (L1 - L3)
- for busbars 12 x 5 mm, 250 A (N+PE)
- with fixing screws



Mi ST 41

Busbar support for busbars 400 A, 5-pole

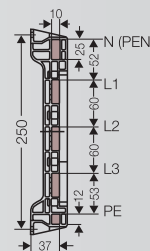
- centreline spacing of busbars: 60 mm
- for Installation in Mi empty boxes
- for busbars 20 x 10 mm (L1 - L3)
- for busbars 12 x 10 mm (N)
- for busbars 12 x 5 mm (PE)
- with fixing screws



Mi ST 63

Busbar support for busbars 630 A, 5-pole

- centreline spacing of busbars: 60 mm
- for Installation in Mi empty boxes
- for busbars 30 x 10 mm (L1 - L3)
- for busbars 25 x 10 mm (N)
- for busbars 12 x 10 mm (PE)
- with fixing screws



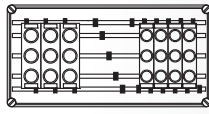
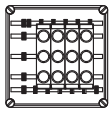
Terminal for direct connection on busbar

for solid (sol), stranded (s), flexible (f) copper conductors, with gas-tight crimped end sleeve and for laminated wiring strip

Note: To comply the insulation resistance there must be an air gap of 10 mm between different potentials and to inactive, conductive metal parts 15 mm.

	Type	for Busbars	Width	Leiterquerschnitt	Wiring strip	Tightening torque
	KS 16 F	... x 5 mm	11 mm	1,5-16 mm ² Cu		4 Nm
	KS 16 Z	... x 10 mm	11 mm	1,5-16 mm ² Cu		4 Nm
	KS 35 F	... x 5 mm	16 mm	4-35 mm ² Cu	100 A: Mi VS 100 160 A: Mi VS 160	6 Nm
	KS 35 Z	... x 10 mm	16 mm	4-35 mm ² Cu	100 A: Mi VS 100 160 A: Mi VS 160	6 Nm
	KS 70 F	... x 5 mm	21 mm	10-70 mm ² Cu	100 A: Mi VS 100 160 A: Mi VS 160	10 Nm
	KS 70 Z	... x 10 mm	21 mm	10-70 mm ² Cu	100 A: Mi VS 100 160 A: Mi VS 160	10 Nm
	KS 120 F	... x 5 mm	25 mm	25-120 mm ² Cu	250 A: Mi VS 250 400 A: Mi VS 400	20 Nm
	KS 120 Z	... x 10 mm	25 mm	25-120 mm ² Cu	250 A: Mi VS 250 400 A: Mi VS 400	20 Nm
	KS 240/12	12 x 5 mm / 12 x 10 mm	34 mm	35-240 mm ² Cu/Alu Prior to connection, aluminium conductors must be prepared according to the relevant technical recommendations.		40 Nm
	KS 150	12 x 5 mm / 12 x 10 mm	34 mm	35-150 mm ² Cu	630 A: Mi VS 630	20 Nm
	KS 185	20 x 10 mm / 25 x 10 mm / 30 x 10 mm	38 mm	95-185 mm ² Cu/Alu Prior to connection, aluminium conductors must be prepared according to the relevant technical recommendations.		30 Nm
	KS 240 V	20 x 10 mm / 25 x 10 mm / 30 x 10 mm	38 mm		630 A: Mi VS 630	30 Nm
	KS 300	20 x 10 mm / 25 x 10 mm / 30 x 10 mm	38 mm	120-300 mm ² Cu/Alu Prior to connection, aluminium conductors must be prepared according to the relevant technical recommendations.		

Mi fuse boxes
Diazed/Neozed



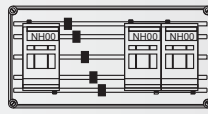
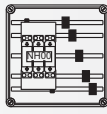
630 A

N: 12x5
L1-L3: 12x10
PE: 12x5

N: 12x10
L1-L3: 20x10
PE: 12x5

N: 25x10
L1-L3: 30x10
PE: 12x10

Mi HRC fuse boxes, Fuse bases and
Fuse switch disconnectors



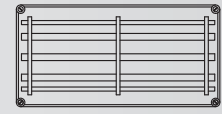
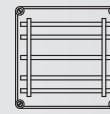
250 A

N: 12x5
L1-L3: 12x10
PE: 12x5

N: 12x10
L1-L3: 20x10
PE: 12x5

N: 25x10
L1-L3: 30x10
PE: 12x10

Mi Busbar boxes

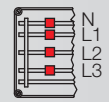
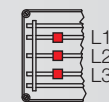
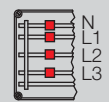
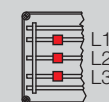
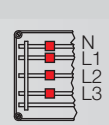
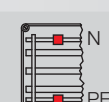
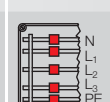
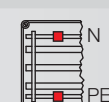
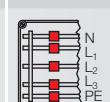
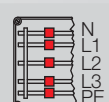
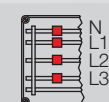
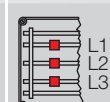
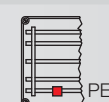
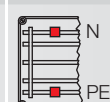
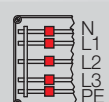
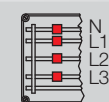
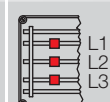
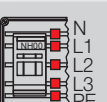
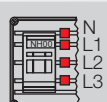
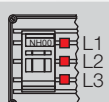
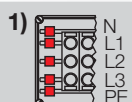
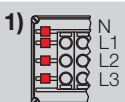
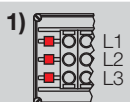
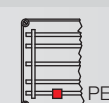
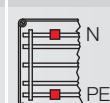
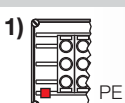
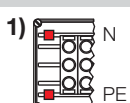
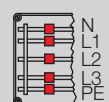
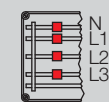
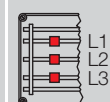
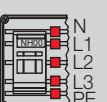
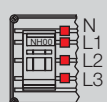
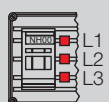
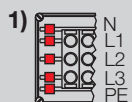
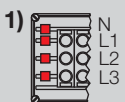
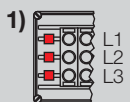
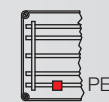
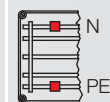
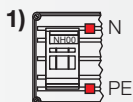
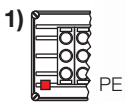
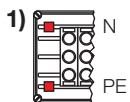
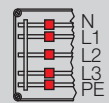
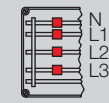
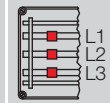
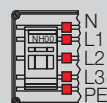
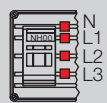
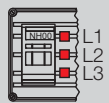
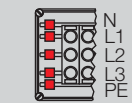
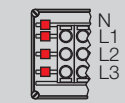
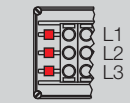
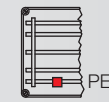
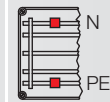
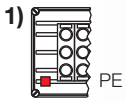
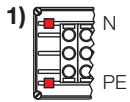


250 A

N: 12x5
L1-L3: 12x10
PE: 12x5

N: 12x10
L1-L3: 20x10
PE: 12x5

N: 25x10
L1-L3: 30x10
PE: 12x10



1) Terminals included with supply of the boxes with electrical function, see description of the boxes.



Mi VS 100

Wiring strip

Rated current: 100 A

- for connections of 100 A between busbars and built-in equipment
- wiring instructions for equipment (e.g. wire range ...mm²) must be observed
- length 2000 mm
- number of sheets: 3 pieces
- width: 9 mm
- material thickness per sheet 0.8 mm



Mi VS 160

Wiring strip

Rated current: 160 A

- for connections of 160 A between busbars and built-in equipment
- wiring instructions for equipment (e.g. wire range ...mm²) must be observed
- length 2000 mm
- sheets: 6 pieces
- width: 9 mm
- material thickness per sheet 0.8 mm



Mi VS 250

Wiring strip

Rated current: 250 A

- for connections of 250 A between busbars and built-in equipment
- wiring instructions for equipment (e.g. wire range ...mm²) must be observed
- length 2000 mm
- sheets: 6 pieces
- width: 15.5 mm
- material thickness per sheet 0.8 mm



Mi VS 400

Wiring strip

Rated current: 400 A

- for connections of 400 A between busbars and built-in equipment
- wiring instructions for equipment (e.g. wire range ...mm²) must be observed
- length 2000 mm
- sheets: 10 pieces
- width: 15.5 mm
- material thickness per sheet 0.8 mm



Mi VS 630

Wiring strip

Rated current: 630 A

- for connections of 630 A between busbars and built-in equipment
- wiring instructions for equipment (e.g. wire range ...mm²) must be observed
- length 2000 mm
- number of sheets: 11 pieces
- width: 20 mm
- material thickness per sheet 1 mm



VA 400

Wiring terminal up to 400 A

- terminal for direct connection of laminated copper wiring strip (Mi VS 250 and Mi VS 400) up to 400 A
- onto switchgear with flat contact M10

tightening torque for terminal

8,0 Nm



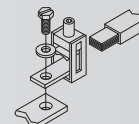
VA 630

Wiring terminal up to 630 A

- terminal for direct connection of laminated copper wiring strip (Mi VS 630) up to 630 A
- onto 630 A switchgears with M10 / M12

tightening torque for terminal

23,0 Nm



DA 240

Terminal for direct connection up to 400 A max. 240 mm²

- for mounting onto switchgear with flat contact M10
- with insulating cover
- rated connecting capacity: 35-70 mm² s (round), Cu/Alu 50-185 mm² s (sector), Cu/Alu 35-50 mm² sol, Cu/Alu 70-240 mm² sol (sector) Cu/Alu
- Reference to the preparation of aluminum conductors:
 1. Clean the bared conductor end carefully by scraping off the oxide film, for example with a knife, (Please do not use rasps, emery paper or brushes!).
 2. Immediately after removing the oxide film the conductor end is to rub in with acid and alkali free fat for example vaseline, and immediately to be connected in the terminal.
 3. The prementioned processing steps are to be repeated, if the conductor was disconnected and connected again.
 4. The terminal is maintenance-free, that means a re-check of the torque is not required.

tightening torque for terminal

22,0 Nm



Mi DA 72

Terminal set for direct connection to equipment max. 1 x 300 mm², Cu/Alu, 3-pole

- terminal for copper and aluminium conductors
- set with 3 pieces
- rated connecting capacity:
 - 1 x 120-300 mm² s / f (round)
 - 1 x 120-300 mm² s (sector)
 - 1 x 120-185 mm² sol (sector)
 - 2 x 70-150 mm² s / f (round)
 - 2 x 95-150 mm² s (sektor)
 - 2 x 70 mm² sol (round)
 - 2 x 95-150 mm² sol (sector)
- Reference to the preparation of aluminum conductors:
 1. Clean the bared conductor end carefully by scraping off the oxide film, for example with a knife, (Please do not use rasps, emery paper or brushes!).
 2. Immediately after removing the oxide film the conductor end is to rub in with acid and alkali free fat for example vaseline, and immediately to be connected in the terminal.
 3. The prementioned processing steps are to be repeated, if the conductor was disconnected and connected again.
 4. Due to the disposition to flowing of aluminum the terminals are to be re-tightened before start-up and after the first 200 operation hours.
- for the connection of switch disconnector 630 A (Mi 7865)
- width: 61 mm



Mi HS 20

Auxiliary contact
2 changeover contacts for retrofitting on
switch disconnectors 160-630 A

- rated current: 6 A
- 2-pole
- connection with flat connector 6.3 mm



MK 0107

Auxiliary changeover contact
for circuit-breakers 16-630 A

- rated current: 6 A
- 1-pole
- The auxiliary switches can report different functions depending on their mounting location in the circuit-breaker.
- circuit breaker 160/250 A = 2x ON/OFF signal + 1x tripping signal
- circuit-breaker 400/630 A = 3x ON/OFF signal + 1x tripping signal + 1x electric error signal



MK 0106

Open-circuit shunt release
for circuit-breakers 16-630 A

- AC 50/60 Hz, 200 to 240 V
- the main contacts of the circuit-breaker are opened when voltage of more than $0.7 \times U_n$ is applied



MK 0105

Undervoltage release
for circuit-breakers 16-630 A

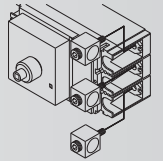
- AC 50/60 Hz, 200 to 240 V
- when the control voltage drops below $0.35 - 0.7 \times U_n$, the main contacts of the circuit-breaker are opened
- the closing of the contacts can only take place with voltages above $0.85 \times U_n$



MK 0108

Circuit-breaker terminal for direct connection 1 x 35-300 mm², Cu/Alu, 3polig

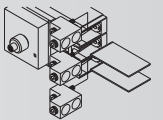
- for circuit-breakers 400 A and 630 A
- set with 3 pieces
- Reference to the preparation of aluminum conductors:
 1. Clean the bared conductor end carefully by scraping off the oxide film, for example with a knife, (Please do not use rasps, emery paper or brushes!).
 2. Immediately after removing the oxide film the conductor end is to rub in with acid and alkali free fat for example vaseline, and immediately to be connected in the terminal.
 3. The prementioned processing steps are to be repeated, if the conductor was disconnected and connected again.
 4. Due to the disposition to flowing of aluminum the terminals are to be retightened before start-up and after the first 200 operation hours.



MK 0109

Circuit-breaker terminal for direct connection 2 x 70-240mm², Cu/Alu, 3-pole

- for circuit-breakers 400 A and 630 A
- set with 3 pieces
- Reference to the preparation of aluminum conductors:
 1. Clean the bared conductor end carefully by scraping off the oxide film, for example with a knife, (Please do not use rasps, emery paper or brushes!).
 2. Immediately after removing the oxide film the conductor end is to rub in with acid and alkali free fat for example vaseline, and immediately to be connected in the terminal.
 3. The prementioned processing steps are to be repeated, if the conductor was disconnected and connected again.
 4. Due to the disposition to flowing of aluminum the terminals are to be retightened before start-up and after the first 200 operation hours.





Mi VE 120

Terminal for incoming/outgoing cables max. 16-150 mm², Cu/Alu

- current carrying capacity: 250 A
- 4-pole
- clamping units per pole: 2 x 16-150 mm², 4 x 16-70 mm²
- for terminal technology refer to index technical data
- outgoing wiring strip Mi VS ..
- Reference to the preparation of aluminum conductors:
 1. Clean the bared conductor end carefully by scraping off the oxide film, for example with a knife, (Please do not use rasps, emery paper or brushes!).
 2. Immediately after removing the oxide film the conductor end is to rub in with acid and alkali free fat for example vaseline, and immediately to be connected in the terminal.
 3. The prementioned processing steps are to be repeated, if the conductor was disconnected and connected again.
 4. Due to the disposition to flowing of aluminum the terminals are to be re-tightened before start-up and after the first 200 operation hours.
- tightening torque for terminal: 20.0 Nm
- for the installation in Mi empty boxes sizes 2 to 8
- pre-mounted on mounting plate 300 x 300 mm
- with fixing screws



Mi VE 125

Terminal for incoming/outgoing cables max. 16-150 mm², Cu/Alu

- current carrying capacity: 250 A
- 5-pole
- clamping units per pole: 2 x 16-150 mm², 4 x 16-70 mm²
- for terminal technology refer to index technical data
- outgoing wiring strip Mi VS ..
- Reference to the preparation of aluminum conductors:
 1. Clean the bared conductor end carefully by scraping off the oxide film, for example with a knife, (Please do not use rasps, emery paper or brushes!).
 2. Immediately after removing the oxide film the conductor end is to rub in with acid and alkali free fat for example vaseline, and immediately to be connected in the terminal.
 3. The prementioned processing steps are to be repeated, if the conductor was disconnected and connected again.
 4. Due to the disposition to flowing of aluminum the terminals are to be re-tightened before start-up and after the first 200 operation hours.
- for the installation in Mi empty boxes sizes 2 to 8
- pre-mounted on mounting plate 300 x 300 mm
- with fixing screws



Mi VE 240

Terminal for incoming/outgoing cables max. 25-240 mm², Cu/Alu

- 4-pole
- current carrying capacity: 400 A
- incoming or outgoing cables per pole: 2 x 50-240 mm², 4 x 25-120 mm²
- for terminal technology refer to index technical data
- outgoing wiring strip Mi VS ..
- Reference to the preparation of aluminum conductors:
 1. Clean the bared conductor end carefully by scraping off the oxide film, for example with a knife, (Please do not use rasps, emery paper or brushes!).
 2. Immediately after removing the oxide film the conductor end is to rub in with acid and alkali free fat for example vaseline, and immediately to be connected in the terminal.
 3. The prementioned processing steps are to be repeated, if the conductor was disconnected and connected again.
 4. Due to the disposition to flowing of aluminum the terminals are to be re-tightened before start-up and after the first 200 operation hours.
- tightening torque for terminal: 40.0 Nm
- for the installation in Mi empty boxes sizes 2 to 8
- pre-mounted on mounting plate 300 x 300 mm
- with fixing screws



Mi VE 245

Terminal for incoming/outgoing cables max. 25-240 mm², Cu/Alu

- current carrying capacity: 400 A
- 5-pole
- incoming or outgoing cables per pole: 2 x 50-240 mm², 4 x 25-120 mm²
- for terminal technology refer to index technical data
- outgoing wiring strip Mi VS ..
- Reference to the preparation of aluminum conductors:
 1. Clean the bared conductor end carefully by scraping off the oxide film, for example with a knife, (Please do not use rasps, emery paper or brushes!).
 2. Immediately after removing the oxide film the conductor end is to rub in with acid and alkali free fat for example vaseline, and immediately to be connected in the terminal.
 3. The prementioned processing steps are to be repeated, if the conductor was disconnected and connected again.
 4. Due to the disposition to flowing of aluminum the terminals are to be re-tightened before start-up and after the first 200 operation hours.
- tightening torque for terminal: 40.0 Nm
- for the installation in Mi empty boxes sizes 2 to 8
- pre-mounted on mounting plate 300 x 300 mm
- with fixing screws



Mi VE 302

Terminal for incoming/outgoing cables max. 95-300 mm², Cu/Alu

- current carrying capacity: 630 A
- 2-pole
- incoming or outgoing cables per pole: 2 x 120-300 mm², 4 x 95-185 mm²
- for terminal technology refer to index technical data
- outgoing wiring strip Mi VS 630
- Reference to the preparation of aluminum conductors:
 1. Clean the bared conductor end carefully by scraping off the oxide film, for example with a knife, (Please do not use rasps, emery paper or brushes!).
 2. Immediately after removing the oxide film the conductor end is to rub in with acid and alkali free fat for example vaseline, and immediately to be connected in the terminal.
 3. The prementioned processing steps are to be repeated, if the conductor was disconnected and connected again.
 4. Due to the disposition to flowing of aluminum the terminals are to be re-tightened before start-up and after the first 200 operation hours.
- for the installation in Mi empty boxes sizes 2 to 8
- pre-mounted on mounting plate 300 x 300 mm
- with fixing screws



Mi VE 303

Terminal for incoming/outgoing cables max. 95-300 mm², Cu/Alu

- current carrying capacity: 630 A
- 3-polig
- incoming or outgoing cables per pole: 2 x 120-300 mm², 4 x 95-185 mm²
- for terminal technology refer to index technical data
- outgoing wiring strip Mi VS 630
- Reference to the preparation of aluminum conductors:
 1. Clean the bared conductor end carefully by scraping off the oxide film, for example with a knife, (Please do not use rasps, emery paper or brushes!).
 2. Immediately after removing the oxide film the conductor end is to rub in with acid and alkali free fat for example vaseline, and immediately to be connected in the terminal.
 3. The prementioned processing steps are to be repeated, if the conductor was disconnected and connected again.
 4. Due to the disposition to flowing of aluminum the terminals are to be re-tightened before start-up and after the first 200 operation hours.
- for the installation in Mi empty boxes sizes 2 to 8
- pre-mounted on mounting plate 300 x 300 mm
- with fixing screws



Mi VE 304

Terminal for incoming/outgoing cables max. 95-300 mm², Cu/Alu

- current carrying capacity: 630 A
- 4-pole
- incoming or outgoing cables per pole: 2 x 120-300 mm², 4 x 95-185 mm²
- for terminal technology refer to index technical data
- outgoing wiring strip Mi VS 630
- conductor material: Cu/Alu
- Reference to the preparation of aluminum conductors:
 1. Clean the bared conductor end carefully by scraping off the oxide film, for example with a knife, (Please do not use rasps, emery paper or brushes!).
 2. Immediately after removing the oxide film the conductor end is to rub in with acid and alkali free fat for example vaseline, and immediately to be connected in the terminal.
 3. The prementioned processing steps are to be repeated, if the conductor was disconnected and connected again.
 4. Due to the disposition to flowing of aluminum the terminals are to be re-tightened before start-up and after the first 200 operation hours.
- tightening torque for terminal: 50.0 Nm
- for the installation in Mi empty boxes sizes 2 to 8
- pre-mounted on mounting plate 300 x 300 mm
- with fixing screws

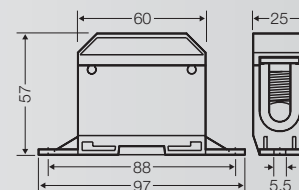


Mi NK 1

Connecting terminal

Rated connecting capacity: 16-50 mm², Cu

- current carrying capacity: 150 A
- 1-pole per 6 x 16 mm² s, 4 x 25 mm² s, 4 x 35 mm² s, 4 x 50 mm² s, 2 x 70 mm² s each
- for terminal technology refer to index technical data



Mi NK 2

Connecting terminal

1 x 70 mm², 2 x 35 mm², Cu

- current carrying capacity: 160 A
- for terminal technology refer to index technical data



Mi NK 3

Connecting terminal

4 x 35 mm², Cu

- current carrying capacity: 160 A
- for terminal technology refer to index technical data



Mi NK 4

Connecting terminal

2 x M 10

- current carrying capacity: 400 A
- for terminal technology refer to index technical data

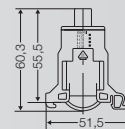


KKL 25

Connecting terminal

Rated connecting capacity: 6-35 mm², Cu

- as a connecting terminal
- for installation on DIN rails in accordance with IEC 60 715, top hat profile 35 mm
- current carrying capacity: 102 A
- 1-pole 6 x 6 mm² sol, 6 x 10 mm² sol/ f*, 4 x 16 mm² s/ f*, 4 x 25 mm² s/ f*, 2 x 35 mm² s/ f* each f* = with gas-tight end ferrule
- with two connected clamping units



rated insulation voltage	AC/DC 690 V
Dismantling length	16 mm
tightening torque for terminal	3,0 Nm

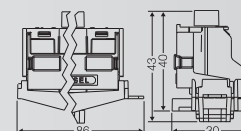


FC L 10

Terminal

2 x 25 mm², 8 x 4 mm², Cu

- for installation on DIN rails in accordance with IEC 60 715, top hat profile 35 mm
- FIXCONNECT® plug-in technology, for terminal technology refer to index technical data
- current carrying capacity: 80 A

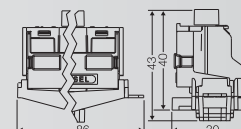


FC N 10

N terminal

2 x 25 mm², 8 x 4 mm², Cu

- for installation on DIN rails in accordance with IEC 60 715, top hat profile 35 mm
- FIXCONNECT® plug-in technology, for terminal technology refer to index technical data
- current carrying capacity: 80 A

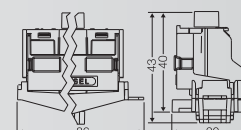


FC PE 10

PE terminal

2 x 25 mm², 8 x 4 mm², Cu

- for boxes with 1 x 12 modules (through terminal reduction to 9 modules)
- for installation on DIN rails in accordance with IEC 60 715, top hat profile 35 mm
- FIXCONNECT® plug-in technology, for terminal technology refer to index technical data
- current carrying capacity: 80 A

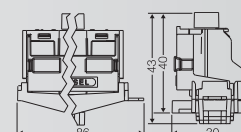


FC PN 10

PE and N terminal

per PE/N 1 x 25 mm², 4 x 4 mm² Cu

- for installation on DIN rails in accordance with IEC 60 715, top hat profile 35 mm
- FIXCONNECT® plug-in terminal technology, for terminal technology refer to technical data
- current carrying capacity: 80 A



FC BS 5

FIXCONNECT labelling system

set with 5 pieces

- labelling system for FIXCONNECT plug-in terminals, not for terminals 2x25 / 4x4 mm²
- for attaching of labelling strips or marking with felt tip pen



FC PN 30

PE and N terminal

per PE/N 3 x 25 mm², 12 x 4 mm², Cu

- 1-row
- FIXCONNECT® plug-in technology, for terminal technology refer to index technical data
- current carrying capacity: 80 A

PE+N x cross section	3 x 25 mm ² 12 x 4 mm ² 1-row
conductor material	Cu



FC PN 60

PE and N terminal

per PE/N 6 x 25 mm², 24 x 4 mm², Cu

- 2-row
- FIXCONNECT® plug-in technology, for terminal technology refer to index technical data
- current carrying capacity: 80 A
- Not applicable in boxes Mi 1456, Mi 1455, Mi 1884 and Mi 1885

PE+N x cross section	6 x 25 mm ² 24 x 4 mm ² 2-row
conductor material	Cu



FC N 30

N terminal

per N 6 x 25 mm², 24 x 4 mm², Cu

- 1-row
- FIXCONNECT® plug-in technology, for terminal technology refer to index technical data
- current carrying capacity: 80 A

number x cross-section per N	6 x 25 mm ² 24 x 4 mm ² 1-row
conductor material	Cu



FC PE 30

PE terminal

per PE 6 x 25 mm², 24 x 4 mm², Cu

- 1-row
- FIXCONNECT® plug-in technology, for terminal technology refer to index technical data
- current carrying capacity: 80 A

number x cross-section per PE	6 x 25 mm ² 24 x 4 mm ² 1-row
conductor material	Cu



Mi NK 14

Connecting terminal

per conductor 1 x 25 mm², 12 x 16 mm², Cu

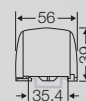
- fixing on DIN rail
- for retrofitting in kits for DIN rail equipment
- for retrofitting in Mi Empty box



KKL 34

**Main line branch terminal
per pole 4 x 1.5-25 mm² as L1-L3, Cu**

- 3-pole as connecting terminal 25 mm²
- for installation on DIN rails in accordance with IEC 60 715, top hat profile 35 mm
- current carrying capacity: 80 A
- width: 61 mm



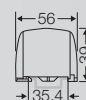
ENYCASE



KKL 48

**Main line branch terminal
per pole 4 x 1.5-25 mm², as L1-L3; 8 x 1.5-25 mm², as N, Cu**

- 4-pole as connecting terminal 25 mm²
- for installation on DIN rails in accordance with IEC 60 715, top hat profile 35 mm
- current carrying capacity: 80 A
- width: 100 mm



ENYBOARD



KKL 54

**Main line branch terminal
per pole 4 x 1.5-25 mm² as L1-L3; 4 x 1.5-25 mm² as N;
4 x 1.5-25 mm² as PE, Cu**

- 5-pole as connecting terminal 25 mm²
- for installation on DIN rails in accordance with IEC 60 715, top hat profile 35 mm
- current carrying capacity: 80 A
- width: 100 mm



ENYSTAP

ENYMOD



MN ST 00

HRC fuse switch disconnector

- 125 A
- 3-polig
- for mounting on mounting plate
- terminal connection 5-70 mm² Cu

rated voltage	AC 690 V
Weight	0,72 kg



MS NH 00

HRC bus-mounted fuse switch disconnector

- 125 A
- 3-polig
- height: 216 mm x width: 105 mm
- for retrofitting on busbars
- busbar thickness 10 mm and centreline spacing of busbars 60 mm
- terminal connection 5-70 mm² Cu

rated voltage	AC 690 V
Weight	1,197 kg



NH SU 00

HRC 00 bus-mounted fuse base

- 125 A
- 3-polig
- height: 216 mm x width: 105 mm
- for retrofitting on busbars
- for busbar thickness of 10 mm and centreline spacing of 60 mm
- terminal connection 5-70 mm² Cu

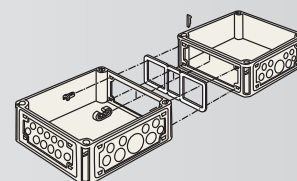
rated voltage	AC 690 V
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Mi WD 2

Wall gasket for box walls 150/300 mm

- for the assembly of Mi boxes
- consisting of 1 seal, 4 wedge links, 1 bracket





Mi SV 25

Busbar connector for busbars 250 A, 5-pole

- with wall gasket
- for the assembly of Mi boxes containing busbars
- tightening torque for terminal: 6.0 Nm
- Busbars 250 A and 400 A can only be connected with busbar connector Mi SV 25.
Connecting of busbars with different rated current only under care and attention of the corresponding short circuit and overload standards.



Mi SV 45

Busbar connector for busbars 400/630 A, 5-pole

- with wall gasket
- for the assembly of Mi boxes containing busbars
- tightening torque for terminal: 10.0 Nm



Mi WT 1

Wall separator

- for subdivision of 300 mm box walls into 2 x 150 mm in case of flange or box assembly



Mi BE

Fixing spares 4 connectors

- for the assembly of Mi boxes
- when converting existing installations



Mi FP 15

Flange without knockouts

- box wall 150 mm
- with fixing wedges and seal

mounting width	65 mm
mounting height	88 mm



Mi FM 15

Flange knockouts 3 x M 20, 1 x M 32/40/50

- box wall 150 mm
- with fixing wedges and seal

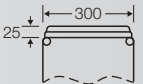


Mi FP 20

Flange without knockouts

- box wall 300 mm
- with fixing wedges and seal

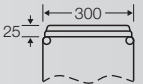
mounting width	215 mm
mounting height	88 mm



Mi FM 20

Flange knockouts 15 x M 16, 15 x M 20

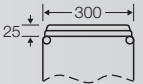
- box wall 300 mm
- with fixing wedges and seal



Mi FM 25

Flange knockouts: 19 x M 16/25

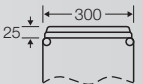
- box wall 300 mm
- with fixing wedges and seal



Mi FM 32

Flange knockouts: 8 x M 25/32, 1 x M 25/32/40

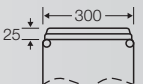
- box wall 300 mm
- with fixing wedges and seal



Mi FM 40

Flange knockouts: 2 x M 25/32, 5 x M 32/40

- box wall 300 mm
- with fixing wedges and seal



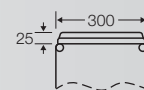


Mi FM 50

Flange

knockouts: 2 x M 20, 4 x M 32/40/50

- box wall 300 mm
- with fixing wedges and seal



Mi FM 60

Flange

knockouts: 3 x M 40/50/63

- box wall 300 mm
- with fixing wedges and seal

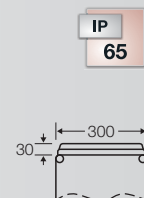


Mi FP 38

Flange

sealing range Ø 7-29 mm

- cable entry via integrated elastic membranes
- sealing range: 29 x Ø 7-12 mm, 4 x Ø 7-14 mm, 4 x Ø 11-20 mm, 1 x Ø 16-29 mm
- box wall 300 mm
- with fixing wedges and seal

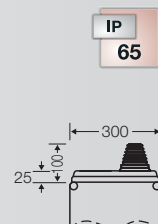


Mi FP 70

Flange

sealing range: 1 x Ø 30-72 mm

- box wall 300 mm
- with fixing wedges and seal

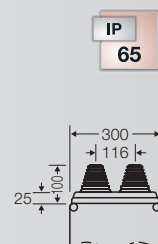


Mi FP 72

Flange

sealing range: 2 x each Ø 30-72 mm

- box wall 300 mm
- with fixing wedges and seal

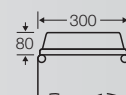


Mi FM 63

Flange with cable arrangement space

knockouts: 3 x M 40/50/63

- box wall 300 mm
- with fixing wedges and seal

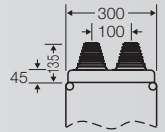




Mi FP 82

Cable insert
sealing range: 2 x each Ø 30-72 mm

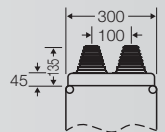
- box wall 300 mm
- divisible for cable insertion from the front
- degree of protection IP 54 only with additional strain and pressure relief (e.g. Mi ZE 62)



KST 82

Stepped grommet
sealing range: Ø 30-72 mm

- for retrofitting of cable insertion Mi FP 82
- for indoor - normal environment and (or) protected outdoor installation
- ambient temperature - 25° to + 35° C



Material
colour

thermoplastic
RAL 7035



Mi ZE 62

Cable strain relief
for 2 cables with max. 60 mm external diameter

- with fixing rail 284 mm long
- to be used only in connection with cable insertion Mi FP 82



Mi GS 30

Box fin
for inserting cables across 2 boxes

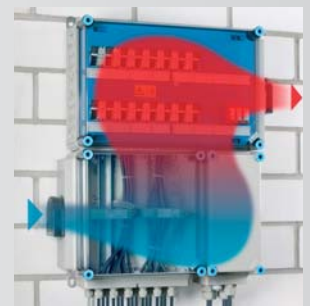
- for box walls 300 mm
- removable
- can be retrofitted



Mi BF 44

Ventilation flange
for vertical installation on box walls

- box wall 300 mm
- for ventilation of Mi-Distribution boards in the event of extremely high internal temperatures or a risk of water condensation



BE 44

Ventilation insert

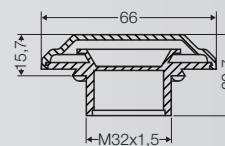
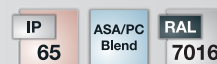




BM 32

Pressure compensation element for M 32 knockouts

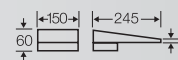
- for the reduction of condensation by pressure compensation in power distribution systems
- ISO thread M 32 x 1.5
- bore-hole: Ø 32.3 mm
- wall thickness of up to 8 mm
- with counter nut
- for indoor (normal environment and/or protected outdoor) and outdoor installation (harsh environment and/or outdoor)
- ambient temperature - 25° to + 55° C
- In order not to exceed leakage limit of 0.07 bar with pressure compensation, one pressure compensation element BM 32 must be used per 42 litres (42000 cm³) of enclosure volume.
- Example: enclosure size 30 cm x 60 cm x 17 cm = 30600 cm³ = 30,6 litres. Number of necessary BM 32 (M32) = 1 piece.



Mi DB 15

Canopy for box wall 150 mm

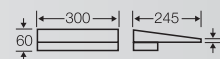
- with fixing wedges and seal



Mi DB 30

Canopy for 300 mm box walls

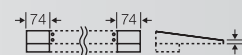
- with fixing wedges and seal



Mi DB 01

Canopy end plate

- for canopies FP DB xx and Mi DB xx



Example: Mi distributor protected by canopy





Mi PL 2

Sealing cap

- 2 sealing caps for converting the lid fasteners



Mi SR 4

Conversion set for manual operation on tool operation

- 4 fastening covers



Mi SN 4

Conversion set for converting lid fasteners from tool to manual operation

- 4 manual actuators



Mi DV 01

Locking device insertion

- only in connection with Mi PL 2, Mi SR 4 or Mi SN 4



Mi ZS 11

Lid lock with locking device I

- Is being used instead of fasteners for hand or tool operation in order to prevent unauthorised opening of the lids
- consisting of: cylinder lock, keys, locking device insertion, dust cover



Mi ZS 12

Lid lock with locking device II

- Is being used instead of fasteners for hand or tool operation in order to prevent unauthorised opening of the lids
- consisting of: cylinder lock, keys, locking device insertion, dust cover



Mi DR 04

Lid fastener for tool operation triangle 8 mm

- is used instead of fasteners for hand- or tool operation, in order to make unauthorized opening of lids more difficult
- 4 locking devices with triangle 8 mm and key



DS 1

Triangular key 8 mm



Mi ZS 20

Mi hinge for lids for Mi boxes sizes 1, 2, 3, 4

- For operating installation device within a large area.
The lid keeps permanently connected to the box.
- When assembling several boxes, the insertion can only be carried out for the external boxes.



Mi ZS 40

Mi hinge for lids for Mi boxes sizes 1 to 8

- For operating installation device within a large area.
The lid keeps permanently connected to the box.
- Wall connectors or flanges are necessary for assembly
- Not applicable in boxes with covers



Mi ZS 60

Mi hinge for lids for Mi boxes sizes 4 and 8 with extension frame

- For operating installation device within a large area.
The lid keeps permanently connected to the box.
- Wall connectors or flanges are necessary for assembly
- Not applicable in boxes with covers

Example:

Mi hinges for lids enable to operate installation device within a large area

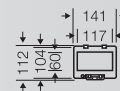




Mi KL 6

Hinged flap modules 1 x 6 x 18 mm

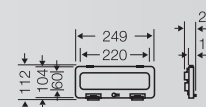
- with drill and saw template
- opening dimensions 117 x 60 mm
- sealable
- lockable with hinged flap lock
- inclusive fixing material
- wall thickness 1.5-4.5 mm



Mi KL 12

Hinged flap modules 1 x 12 x 18 mm

- with drill and saw template
- opening dimensions 220 x 60 mm
- sealable
- lockable with hinged flap lock
- inclusive fixing material
- wall thickness 1.5-4 mm

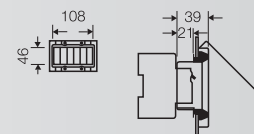


Mi BS 6

Protection cover for Mi KL 6

- with fixing screws

modules	6
	1 x 6 x 18 mm

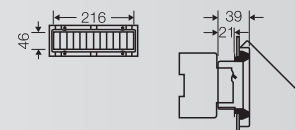


Mi BS 12

Protection cover for Mi KL 12

- with fixing screws

modules	12
	1 x 12 x 18 mm



Mi SK 01

Hinged flap lock

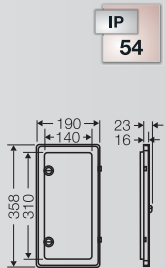
- for retrofitting in hinged flaps of 6 or 12 modules width
- for protecting the switchgear located behind the hinged flap against unauthorised access (only effective in connection with lid lock Mi ZS ..)
- consisting of:
 - 1 lock, Mi KL
 - 2 keys
 - 1 grooved pin



NZ KL 54

**KWH meter window flap
standard opening dimensions 140 x 310 mm**

- in accordance with DIN 43 870
- for tool or manual operation
- can be locked with padlock (clip diameter max. 6 mm)
- complete with screws
- sealable
- degree of protection: IP 54



ENYCASE

ENYBOARD

ENYSTAP

ENYMOD



Mi SA 2

Dust protection cover

- for box sizes 1 to 4
- for 2 lid fittings



MT SP 01

**Wallet for circuit diagram
DIN A 5**

- self-adhesive

colour	clear-transparent
Material	thermoplastic halogen-free



Mi AL 40

4 stainless steel external brackets

- for external fixing of enclosures

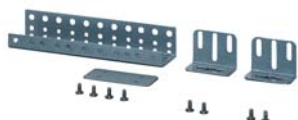
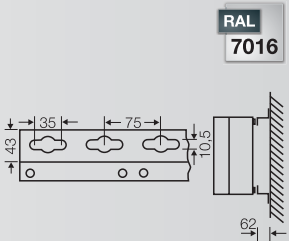


Mi MS 2

Profile for wall mounting

- for Mi distribution board assemblies up to 900 x 1200 mm
- with 8 screws M6 x 16, washers and nuts for mounting enclosures

length	1950 mm
Material	sendzimir galvanised steel profile with structured powder coating



MX 0101

**Mounting profile set
U-profile for constructing a mounting frame**

- consisting of:
1 x mounting rail, 2 x fixing brackets,
1 x flat connector with connecting screws

length	1950 mm
Material	sheet steel, galvanised and powder-coated



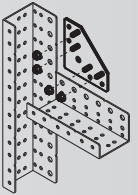


MX 0112

**Frame connector set
for constructing a mounting frame**

- fixing elements for T or L connections
- consisting of: 2 couplers with screws and nuts

Sheet
steel



MX 0105

**Coupler set
for constructing a mounting frame**

- 2 x couplers with connecting screws

Sheet
steel

RAL
7016



Material

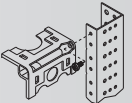
sheet steel, galvanised and
powder-coated



MX 0111

Screw for box fixing

- set with 12 pieces
- M 6 x 16
- self-tapping for fixing the Mi box onto mounting profile MX 0101



Varnish pen RAL 7016

12 ml

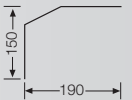
RAL
7016



Z RK 19

Cable entry cover

- height: 150 mm
- depth: 190 mm
- length 2000 mm



colour

RAL 7030

Material

thermoplastics

Weight

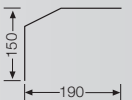
0 kg



Z RKW 19

Support for cable entry cover

- height: 150 mm
- depth: 190 mm



Material

thermoplastics



Operating and ambient conditions	352
Standards and regulations	353
Rated power dissipation of empty boxes	354 - 355
Dimensions in mm	356
Wall mounting	357
Mounting profile	358
Lid hinges, detail dimensions	359
Terminal technology	360
Design and project engineering	361
Assembly	362 - 366

Technical Details
Operating and Ambient Conditions

	Empty enclosures Mi 0... Mi 9...	Circuit breaker boxes Mi 1...
Application area	Suitable for indoor installation and outdoor installation, protected against weather influences However, pay attention to the climatic effects on the installed equipment , for example, high or low ambient temperatures or formation of condensed water see technical information	
	Resistance to occasional cleaning procedures (direct jet) with high-pressure cleaner without cleaning additives, water pressure: max 100 bar, water temperature: Max. 80° C, distance => 0.15 m, in accordance with IP 69K requirements, single enclosure without lid equipment (no enclosure assembly), enclosure and cable glands at least IP 65.	
Ambient temperature		
- Average value over 24 hours	- + 70° C	+ 35° C The ambient temperature is reduced + 40° C at distribution boares by the installed
- Maximum value	- 25° C	- 5° C equipment technology!
- Minimum value		
Relative humidity		
- short-time	-	50% at 40° C 100% at 25° C
Fire protection in the event of internal faults	Demands placed on electrical devices from standards and laws: Minimum requirements - Glow wire test in accordance with IEC 60 695-2-11: - 650° C for boxes and cable glands - 850° C for conducting components	
Burning behaviour		
- Glow wire test IEC 60 695-2-11	960° C	960° C
- UL Subject 94	V-2 flame-retardant self-extinguishing	V-2 flame-retardant self-extinguishing
Degree of protection against mechanical load	IK 08 (5 Joule)	IK 08 (5 Joule)
Toxic behaviour	halogenfree ¹⁾ silicone-free	halogenfree ¹⁾ silicone-free

¹⁾ "Halogen-free" in accordance with IEC 754-2 "Common test methods for cables - Determination of the amount of halogen acid gas".

For material properties see technical data.

Mi Distribution Boards comply with the require- ments of the IEC 61 439-2

Distribution boards assembled and wired according to manufacturer data without essential deviations from the original type or system.

To meet these requirements for Hensel Mi Distribution Boards, the following must be noted:

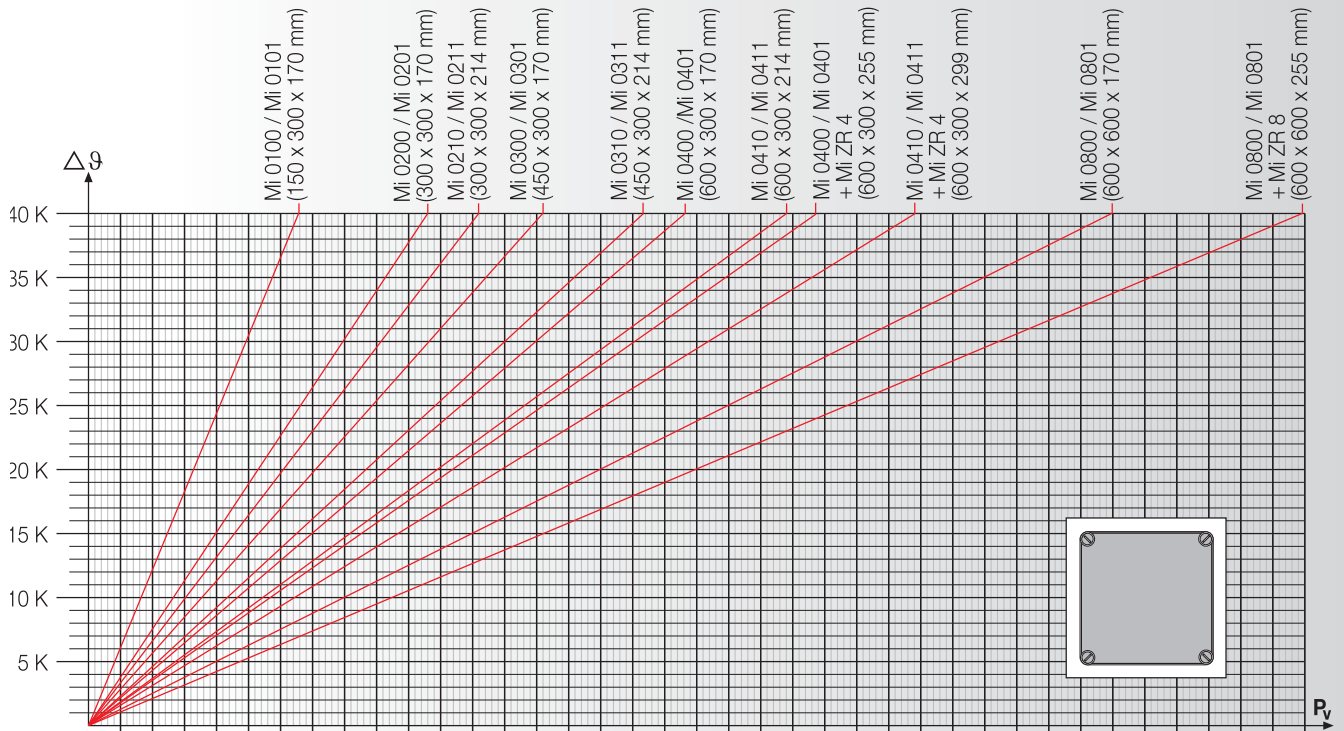
1. The distribution boards must consist of the verified enclosures documented in this list.
2. The wiring of the equipment must be carried out with the cross-sections and conductor types indicated in Table "Rating of insulated conductors in switchgear assemblies", Index Techniques.
3. Once the distribution board is completed, a routine test must be carried out in accordance with this standard.
4. The test must be certified with a test report.
5. The assembly must be provided with a manufacturer's identification mark.
Compliance with important data such as
 - limit of temperature rise
 - dielectric strength
 - IP degrees of protection
 - creepage distances and clearances
 is verified for this system.

Standards and regulations

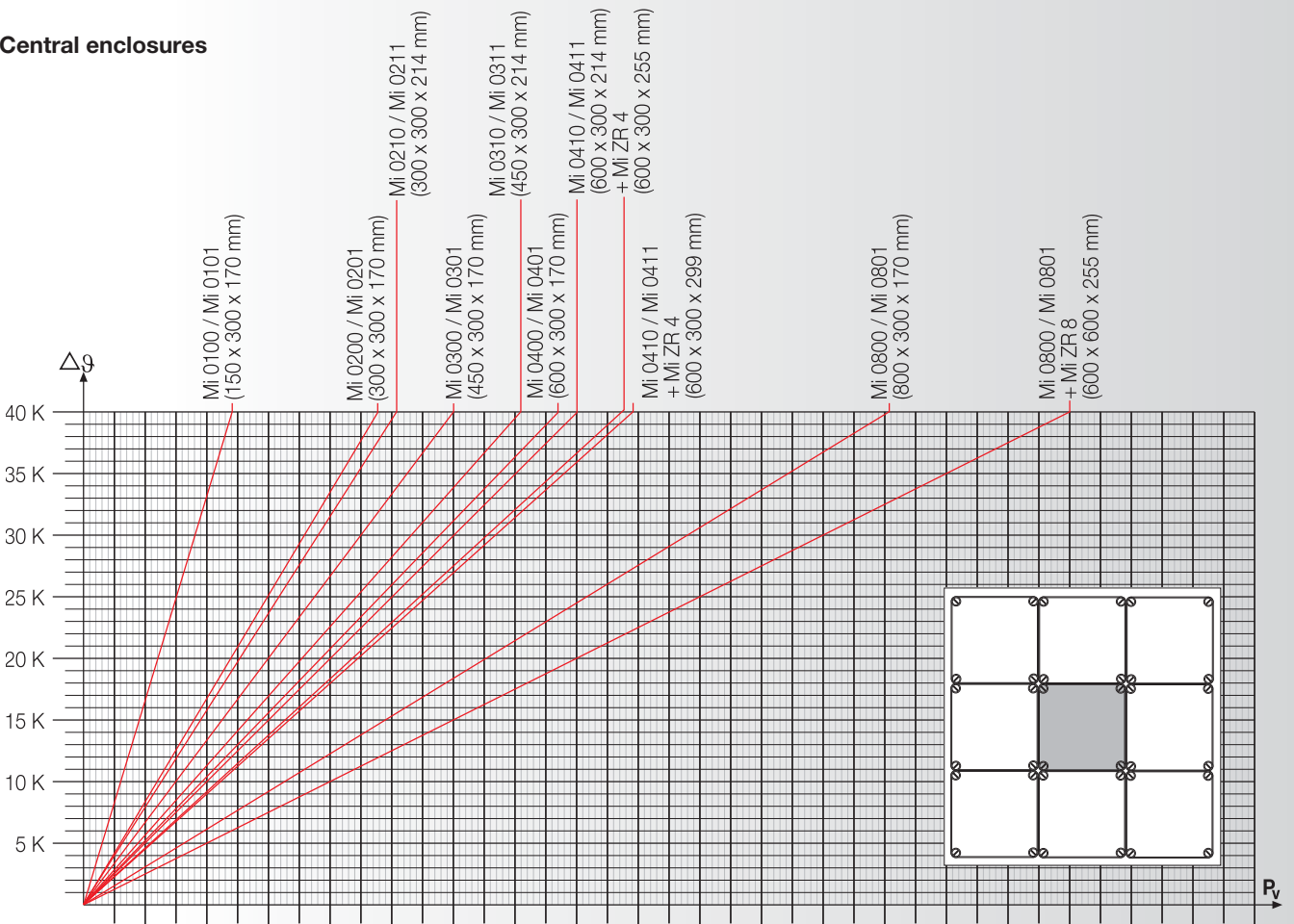
- IEC 61 439-2
Low-voltage switchgear and controlgear assemblies –
Part 2: Power switchgear and controlgear assemblies
- IEC 60 999, connecting devices
Safety requirements for screw-type and screwless-type clamping units
for electrical copper conductors
- DIN EN 50 262
Metric threaded cable glands for electrical installations
- DIN 43 880
Built-in equipment for electrical installations; overall dimensions
and related mounting dimensions
- IEC 60 529 / DIN VDE 0470 Teil 1
Degrees of protection provided by enclosures (IP-Code)

Temperature rise ($\Delta\theta$) with Mi-Distribution boards by power dissipation of electrical devices

Single enclosures

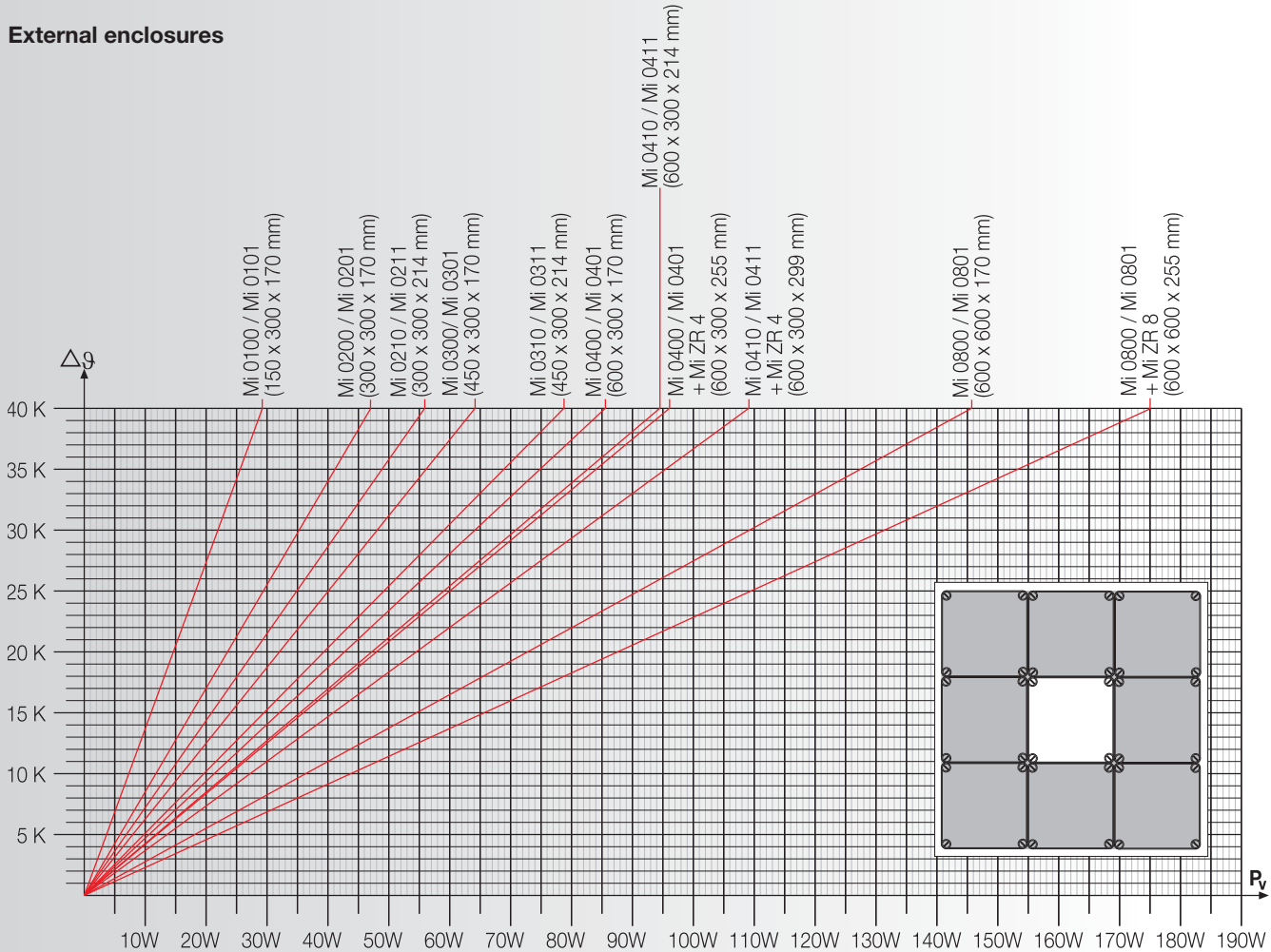


Central enclosures



Temperature rise ($\Delta\vartheta$) with Mi-Distribution boards by power dissipation of electrical devices

External enclosures



Note!

The maximally permissible operating temperature inside the enclosures (ϑ_{imax}) is determined by:

- 1st Maximally permissible ambient temperature of the installed electrical devices (please consider data of the equipment manufacturers)
- 2nd Category temperature of the internal wiring and the inserted cables
- 3rd Temperature resistance of the enclosure materials and the cable entries etc.

Example: Computation of the maximum rated power dissipation (P_v)

Maximally permissible operating temperature inside the enclosure(s) (ϑ_{imax}):	e.g. 55° C
Ambient temperature of the enclosure(s) (ϑ_U):	25° C
Maximally permissible heating up inside the enclosure:	$\Delta\vartheta = \vartheta_{imax} - \vartheta_U = 55^\circ \text{C} - 25^\circ \text{C} = 30 \text{ K}$
Maximum permissible power dissipation of the installed equipment inclusive wiring (P_v) in accordance with diagram:	Enclosure size 3 (540 x 270 x 163 mm)
Single enclosure:	$P_v = 53 \text{ W}$
Central enclosure:	$P_v = 45 \text{ W}$
External enclosure:	$P_v = 48 \text{ W}$

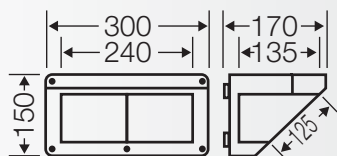
Example: Computation of the operating temperature inside the enclosure (ϑ)

Ambient temperature of the enclosure(s) (ϑ_U):	25° C
Rated power dissipation of the installed electrical equipment (P_v):	30 W
Heating up inside the enclosures in accordance with diagram over:	$\Delta\vartheta$
Enclosure size 3 (540 x 270 x 163 mm) single enclosure:	$\Delta\vartheta = 17 \text{ K}; \vartheta_i = \vartheta_U + \Delta\vartheta = 25^\circ \text{C} + 17 \text{ K} = 42^\circ \text{C}$
Enclosure size 3 (540 x 270 x 163 mm) central enclosure:	$\Delta\vartheta = 20 \text{ K}; \vartheta_i = \vartheta_U + \Delta\vartheta = 25^\circ \text{C} + 20 \text{ K} = 45^\circ \text{C}$
Enclosure size 3 (540 x 270 x 163 mm) external enclosure:	$\Delta\vartheta = 19 \text{ K}; \vartheta_i = \vartheta_U + \Delta\vartheta = 25^\circ \text{C} + 19 \text{ K} = 44^\circ \text{C}$

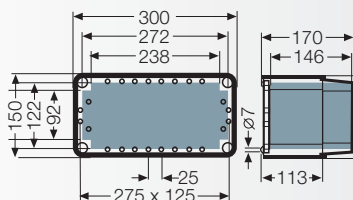
Dimensions of the interior installation depth with installed mounting plates.

The width of Mi Empty boxes Mi 9... enlarges about 15 mm because of the laterally mounted lid hinges, refer to product pages.

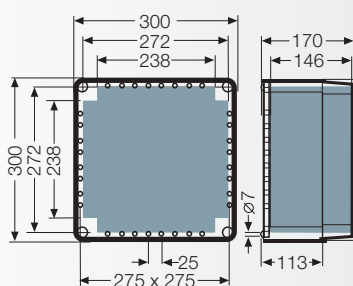
= usable installation space



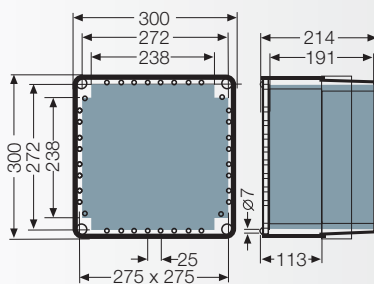
Mi CB 10



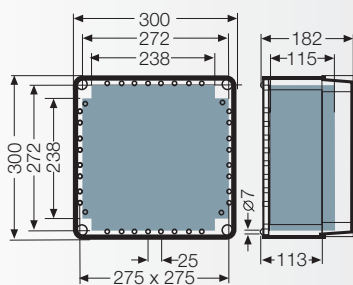
Mi 0100
Mi 0101
Mi 9100
Mi 9101



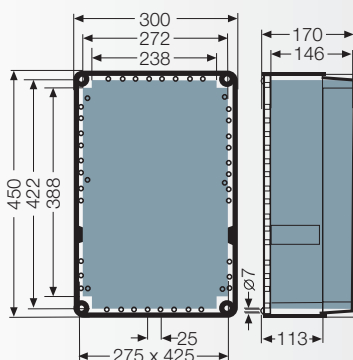
Mi 0200
Mi 0201
Mi 9200
Mi 9201



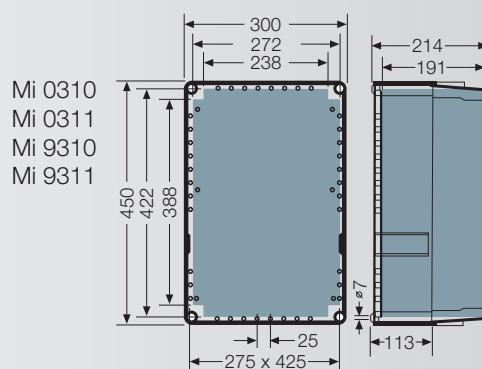
Mi 0210
Mi 0211
Mi 9210
Mi 9211



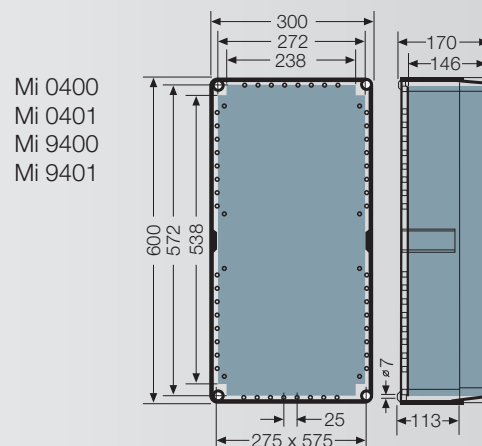
Mi 0220
Mi 0221



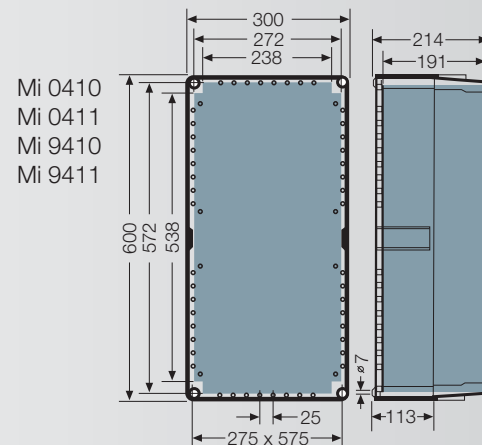
Mi 0300
Mi 0301
Mi 9310
Mi 9311



Mi 0310
Mi 0311
Mi 9310
Mi 9311

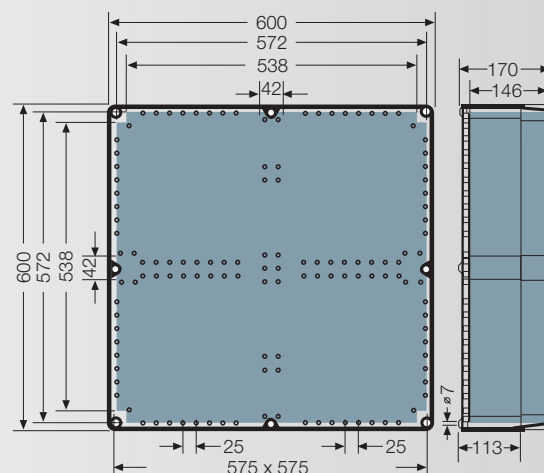


Mi 0400
Mi 0401
Mi 9400
Mi 9401



Mi 0410
Mi 0411
Mi 9410
Mi 9411

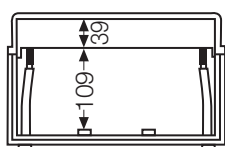
Mi 0800
Mi 0801



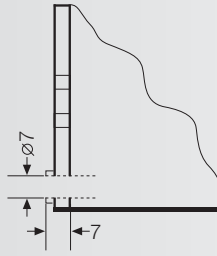
Installation of equipment in protection plates:

Pre-drill the sections at the corners, then saw away the section from the protection plate by using a piercing saw at middle to low cutting speed.

Use coarse toothed saw blades for plastics (e.g. Bosch T 101 B).

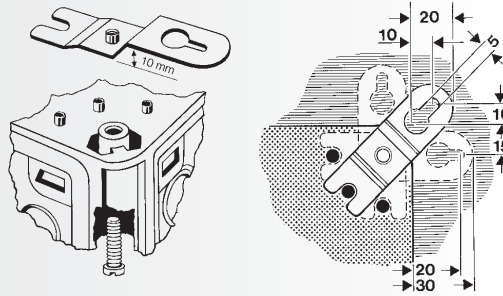


Dimensions for wall mounting in mm



External brackets for external box fixing.

Mi AL 40 (4 fixing brackets)



Mounting profile for wall-mounted installation of Mi-Distribution boards, steel profile, 1950 mm long, dividable in the grid of 150 mm.



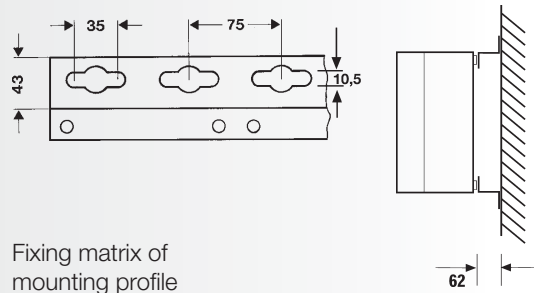
Note:

Please fix mounting profile in vertical position as possible in order to give occasion to cable routing behind the assembly. For cutting to the required length fix mounting profile for example with a clamp to a desk.

Mi MS 2

Transport

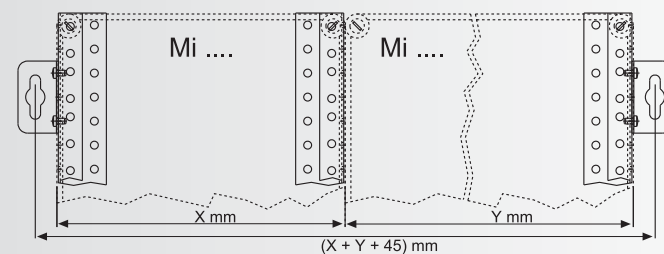
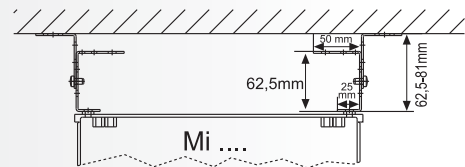
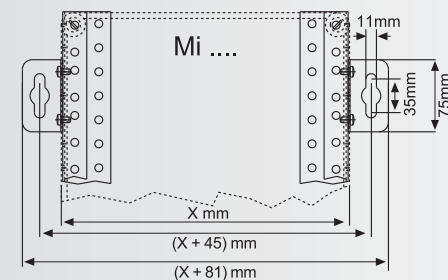
Regarding transportation its recommendable to protect the assembly against deflection. For that please screw the assembly to a solid timber.



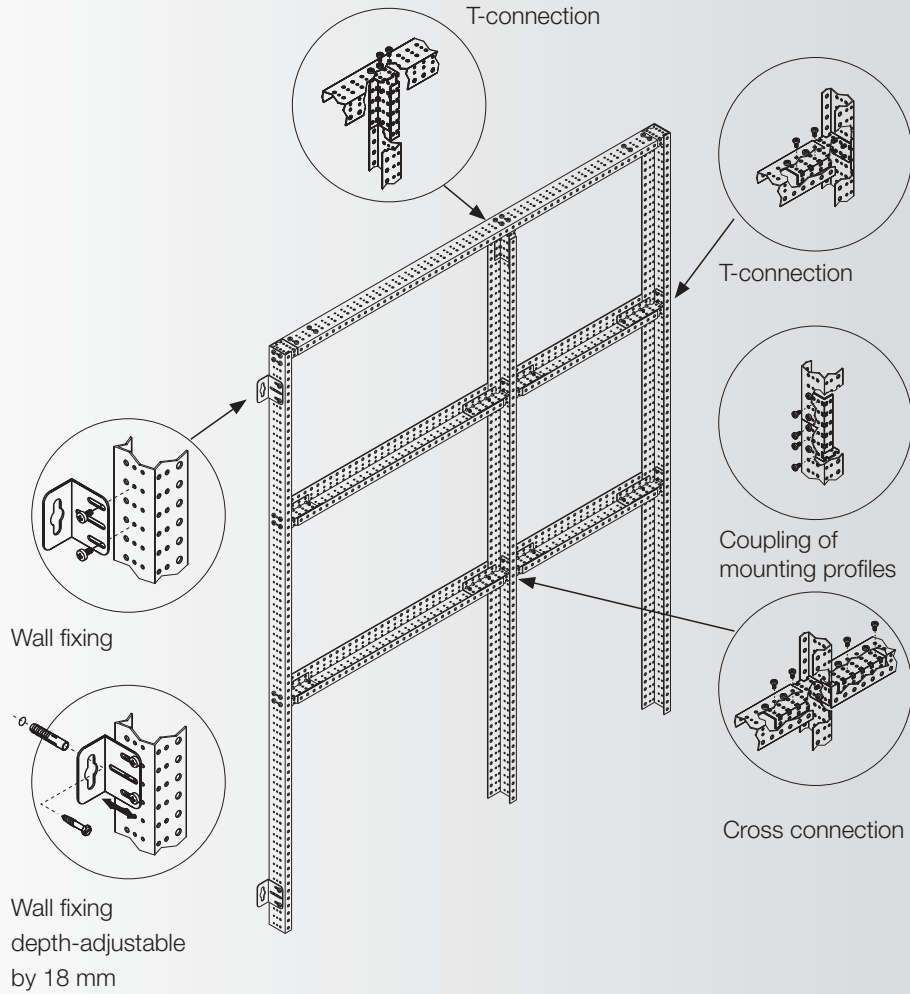
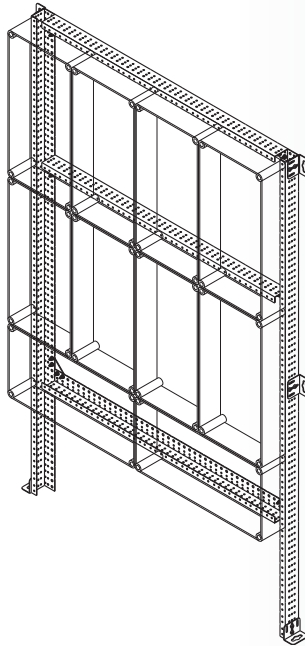
Fixing matrix of
mounting profile

Mounting profiles

U profiles for constructing
a mounting frame.

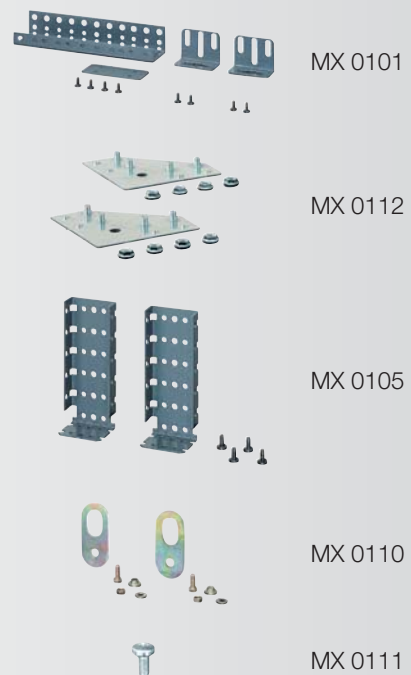
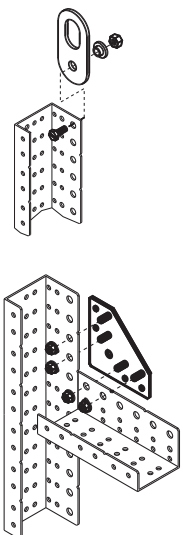


Mounting profile



Mounting profile

To stabilize larger distributions boards for the transport and assembly on site.



Lid hinges
for Mi distribution boards
Mi ZS 20

When assembling several boxes, the insertion can only be carried out for the external boxes.
For operating installation device within a large area.
The lid keeps permanently connected to the box.



Usable in Mi boxes:

Back-stop of lids	Position of box: vertical				Position of box: horizontal			
	left	right	top	bottom	left	right	top	bottom
Size 1:	●	●	●	●	●	●	●	●
Size 2:	●	●	●	●	●	●	●	●
Size 3:	●	●	●	-	-	-	●	●
Size 4:	●	●	●	-	-	-	●	●

Mi heavy-duty hinge joints
Mi ZS 40

For operating installation device within a large area. The lid keeps permanently connected to the box. Wall connectors or flanges are necessary for assembly.
Not applicable in boxes with covers.
Lid is fastened with plastic screw to secure the total insulation .



Mi hinge for lids
Mi ZS 60

For operating installation device within a large area.
The lid keeps permanently connected to the box.
Not applicable in boxes with covers.



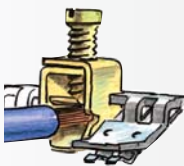
Technical Details Terminals

PE und N

FIXCONNECT®-Klemme

Rated connecting capacity of PE and N terminals

Current carrying capacity:
80 A

Clamping unit	Corresponding cross-sections / copper			
	max. number	from - to max.	max. number	from - to max.
 Screw-type terminal 25 mm ²	1	25 mm ² , s	1	25 mm ² , f
	1	16 mm ² , s	1	16 mm ² , f
	1	10 mm ² , sol	1	10 mm ² , f
	3	6 mm ² , sol	1	6 mm ² , f
	3	4 mm ² , sol	1	4 mm ² , f
	4	2.5 mm ² , sol	1	2.5 mm ² , f
	4	1.5 mm ² , sol	1	1.5 mm ² , f
 Plug-in terminal 4 mm ²	1	1.5 - 4 mm ² , sol	1	1.5 - 4 mm ² , f
				Without end ferrule; clamping unit has to be opened with a tool when conductor is inserted.

Terminal equipment and number of conductors to be connected

PE terminal

Number of modules	Mounted in Mi Circuit breaker boxes	PE terminal	
		 up to 4 mm ²	 up to 25 mm ²
24 (2-row)	Mi 1224		
	Mi 1220		
	Mi 1222		
		12x4 mm ²	2x25 mm ²
36 (3-row) 48 (4-row)	Mi 1336		
	Mi 1333		
	Mi 1448		
	Mi 1444		
		24x4 mm ²	6x25 mm ²

N terminal

Number of modules	Mounted in Mi Circuit breaker boxes	N terminal		
		 up to 4 mm ²	 up to 25 mm ²	 plug-in jumper
24 (2-row)	Mi 1224			
	Mi 1220			
	Mi 1222			
		12x4 mm ²	3x25 mm ²	
36 (3-row) 48 (4-row)	Mi 1336			
	Mi 1333			
	Mi 1448			
	Mi 1444			
		24x4 mm ²	6x25 mm ²	

Planning aids

Planning and project engineering made easy with various planning tools



Project engineering with the catalogue

Project engineering with personal computers and standard software



With the EDP planning software HENPAS, the electrician can edit simple, fast and professional computer-assembly drawings and circuit diagrams.

The parts libraries contain all elements which are required for the editing of assembly plans.

You can download the CAD Parts library of signs and symbols on the Internet at www.hensel-electric.de, download area.

Software requirements:

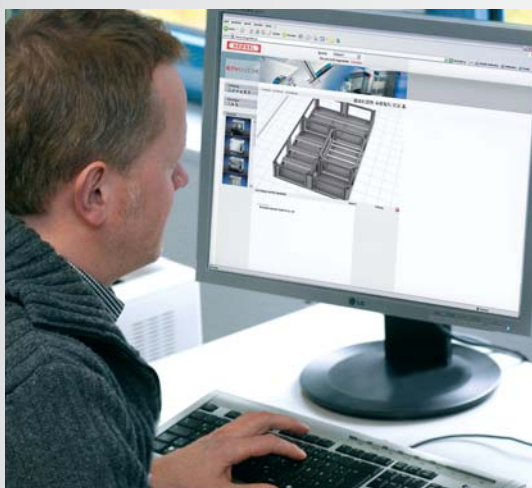
AutoSketch, AutoCAD or DXF compatible CAD programs.

Project engineering with the professional planning aid ENYGUIDE.

The configurator supports project engineering
- online via Internet
- or offline

www.enyguide.de

ENYGUIDE



ENYGUIDE

is a professional planning aid for electricians for a simple and quick editing of design drawings and parts lists.

With the configuration software electricians can provide themselves fast and easily layouts and parts lists without any time-consuming program installation at the computer.

The professional planning aid plots the distribution board as precise 3-dimensional image for final customers and/or the user or as 2-dimensional drawing or the assembler. The user can choose via several layers between the projection of assemblies, covers and doors. ENYGUIDE figures out independently the necessary accessories. The software particularly facilitates a reliable basis for calculations via automatically generated order and parts lists and guarantees a meaningful documentation for each project.



Step 1:

Assembly of Mi Distribution
boards according to assembly
draft



Step 2:

**Knock out of box walls
to provide electrical con-
nection**

Knock out the box walls to provide for the electrical connection inside the distributors. Knock out the appropriate openings of the wedge joints for the assembly of boxes.



Step 3:

Assembly of the boxes

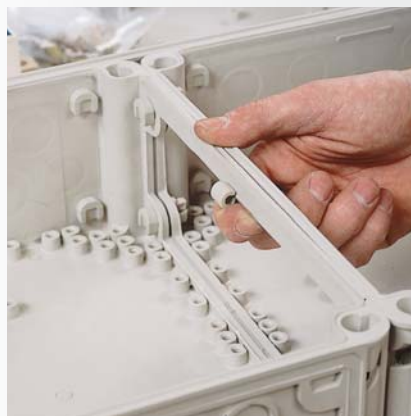
A self-adhesive wall gasket is stuck to the box wall to seal the boxes in position (applies to closed box walls, too.)

The boxes are assembled by means of wedge connections. Screws M 6x15 may be used instead of wedges.



The wall clamp is pressed onto the box fins to increase the rigidity.

Wall separator for subdivision of 300 mm box walls into 2 x 150 mm for flange or box mounting.



Step 3:

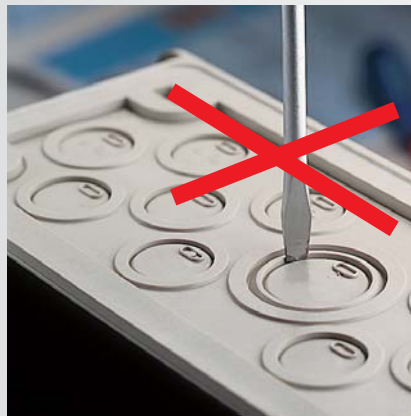
Assembly of the boxes

Cable entry via flanges.

Flanges are attached to the boxes by means of 4 wedge links and 1 clamp to the box wall.



Knock out for cable entries by means of a screwdriver.



The respective box wall is knocked out and the upper box fin next to the wedge fastening is sawed out.

Then the cable insertion is screwed on and the rubber entries are fitted.



The cable is inserted into the box from the front.



Step 3:

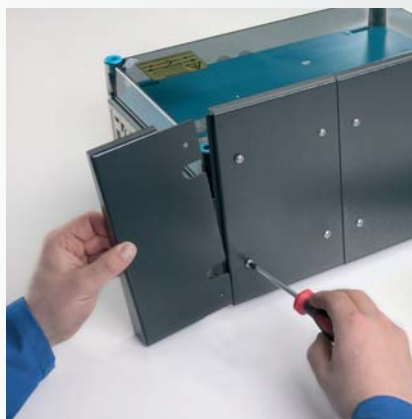
Assembly of the boxes

Subsequent installation of upper box fin.



Mounting canopy

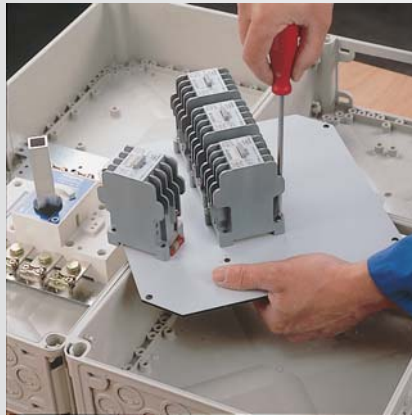
for the unprotected installation outdoors. Easy assembly by means of wedge connections.



Step 4:

Installing equipment

Installation devices can be fastened on mounting plates with self-threading screws.



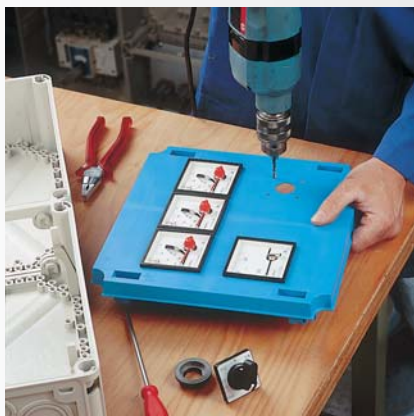
DIN rail fastening on spacers
Mi DS 50



Step 5:

Installation of equipment in cover plates

Pre-drill the sections at the corners. Then saw away the sections from the protection plate by using a piercing saw with coarse toothed saw blades for plastics (e.g. Bosch T 101 B).



Screw the support for the protection plate Mi EP 02 at the base of the box.



Put on the protection plate.



Blanking strips (attached) for unused equipment openings in protection covers.

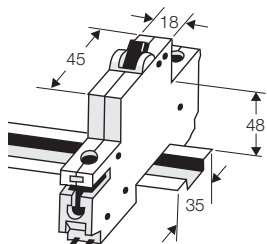


PE and N terminals for copper conductors (installed).



Dimension of 1 module

1 module = 18 mm



Dimensions in accordance with DIN 43 880 for DIN rail equipment

Notes to Mi Circuit breaker boxes

Spare equipment openings in protection covers are to be covered with the blanking strips to prevent accidental contact (blanking strips are enclosed for 50 % of equipment openings).

Circuit breaker boxes can be fitted with any DIN rail equipment, if per row (12 modules 12 x 18 mm) the assigned back-up fuse won't exceed 80 A.